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ISSUED FROM THE U.S. PATENT OFFICE FOR THE WEEK ENDING MARCH 26, 1867. Reported Officially for the Scientific American

PATENTS ARE GRANTED FOR SEVENTEEN YEARS, the followin heing a schedule of feeg-

On filing each Caveat
On filing each application for a Patent, except for a design
On issuing each original Patent
On appeal to Commissioner of Patents
On application for Relssue
On application for Extension of Patent
Un granting the Extension
On filing a Disclaimer
On filing a Disclaimer
On filing application for Design (seven years),
On filing application for Design (seven years)
In addition to which there are some small revenue-stamp taxes. Residents

of Canada and Nova Scotia pay \$500 on application.

Pamphlets containing the Patent Laws and full particulars of the mode of applying for Letters Patent, specifying size of model required, and much other information useful to inventors, may be had gratis by addressing MUNN & Co., Publishers of the SCIENTIFIC AMERICAN, New York.

63.131.-MACHINE ROR MAKING EYELETS.-Samuel W. Ad-

ams (assignor to the American Eyelet Company), Provi-dence, R. I. Antedated March 12, 1867. i st, I clam the improved mode of constructing and operating the com-ind male cutter, 8, Jornier, 2, and punch, 1, as described for the purpose cined.

second, Iclaim a pair of reels, CC', for holding and delivering, and for second, Iclaim a pair of reels, CC', for holding and delivering, and for taking up the metal strip in combination with the eyelet-forming instruments for forming eyelets therefrom, substantially as described. Third, I caim a pair of silding clamping jaws constructed and operating as described in combination with suitable instruments for forming eyelets from a metal strip, as described to the purpose specified. Fourth, I claim, in combination with the eyelet-forming instruments, con-structed substantially as described, or timping mechanism for tumming off the perforated portion of the stock as it passes through the matchine substantially as described. Fitu, I claim the clearing punch, V, in combination with the compound female cutter and forming die, substantially as described for the purpose becined.

specified.

63,132.—SEWING MACHINE.—Frank Armstrong, Waterbury

Conn. First, I claim constructing the plate, A, of the attachment with the slot or aperture, B, whereby the said attachment can be readly adjusted and se-cured upon the machine and removed therefrom, substantially in the manner set forth. Becond The combination and errongement of the under spool support

set forth. Becond, The combination and arrangement of the under spool suppor with the said attachment so that when secured upon a Wheeler and Wison sewing machine the under thread spool, Y, will be entirely under the from edge of the cloth plate of the machine, substantially as and for the purpose set forth.

rth. rd, The employment, in combination with the slotted plate, A, of the table slotted plates, E, substantially in the manner and for the purpose

adjustants of the employment of the guide, C', in combination with the under Fourth, The employment of the guide, C', in combination with the under thread carrier, tusion device and spool, to allow the latter to be arranged under the cloth plate, d, and in the position relatively to said thread carrier and tension device, all substantially in the manner and for the purpose herein set forth.

63,133.—PERMUTATION LOCK.—George B. Atwood (assignor

u5,133.— FERMUTATION LOCK.—George B. Atwood (assignor to Alfred A. Oat), Philadelphia, Pa.
 First, I claim making the plug, B. cynindrical and with an annula groove, be cond, i claim the employment of the recessed central disk, H. for con-trolling the bolts, G. the said disk being constructed and arranged to operate and the said disk being constructed and arranged to operate and the said disk being constructed and arranged disks, D, for the purpose of locking the central disk, H. the said surrounding disks, D, for yourding the solid said operated substantially as described. Fourth, I claim moving the slides, A, by means of the respective cams, C, substantially in the namer described. Fifth, I claim operating the inclosed or invisible disks, D, and cams, C, by means of the exposed or visible indicating disks, E, or equivalents, substan-tially in the manner described.

sixth, lales calaim the employment of the combination consisting of the recessed disk, H, with the four recessed disks, D, whereay they reciprocate with each conter, in the manner and for the purpose described.

63,134.—SHOVEL-PLOW GUARD.—William J. M. Batchelder Dayton, Ohio.

I claim the shovel-plow guard, E, when constructed substantially as here i described and for the purpose specified. 63,135.-BEE FEEDER.-James M. Beebe, Casadaga, N. Y

First, I claim the construction of a bee feeder with an apartment for sugar hquid and an apartment for water provided with racks or floats, E, and an apartment for hour or other food, with a central passage way, C, and door H, all combined substantially as described. second, A b.e feederhaving a central passage way, C, for the entrance o e bees, slue door, H, and glass cover, B, for the purpose substantially described. the

63,136.—Cotton Gin.—John B. Brackett, and Wyman Dear

born, Boston, Mass First, We claim the rolls, C C, constructed as described, as arranged "with the best, D, in combination with the sliding bearing, J, and levers, J, with tucir variable fulcra, substantially as and for the purpose described. Second, The rolls, C C, constructed as described, in combination with the convex pressure bar, E, and endless belt, D, arranged and operating as and

convex pressure bar, E, and endiess beit, D, alranged and optimized described. Third, The arrangement of pressure roll, in combination with belt, D, when arranged as described in connection with rollers, C C, and pressure ba, E, as and for the purpose described. rourth, The arrangement of slotted levers, G, in combination with clearer, F, and crank shaft, H, and turther combination of said clearer levers and crank shaft with rols, m, as and for the purpose described. Crank shaft with rols, m, as and for the purpose described. New York

Grans shaft with rods, m, as and for the purpose described.
G3,137.—STEAM GENERATOR.—W. Buchanan, New York City, and J. M. Toucey, Poughkeepsie, N. Y.
First, we ctaim the divided fire-hox, B t, when constructed and arranged subssitually as and tor the purposes herein set forth.
Second, we ctaim the atrangement of the fire box by which we are enabled to readily disconnect, remove, and replace the lower portion, as therein set forth.
Tintd, We claim the arrangement of the fire box by which we are enabled to readily disconnect, remove, and replace the lower portion, as there is the to the set of the fire box by which we are there is a diath these of the une and adapted to throw iresh air and steam into the gases rising through the hole, D, or its equivalent, substantially in the manner and tor the purpose herein set forth.
Fourth, We claim the steam blow pipe, M, with its nozzles, m, and connection, N, arranged as represented relatively to the air pipe, H, and nozzles, n, substantially as and ior the purpose herein set forth.
Ga 100. M with commer can Second Without 100.

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63,143.-HAND-POWER LOOM.-J. M. Dean, W. B. Bolding and H. Perry, Dayton, Iowa, assignors to themselves and

allu H. Ferry, Dayton, Iowa, assignors to themselves and E. G. Whetstine. We claim, First, Operating the treadles, H H, bymeans of the levers. F and G, jointed connecting rod, E, the feed hand, b, and ratchet, c, with the wipers, d, arranged and combined with the batten, B, in the manner and for the purposes set forth. Second, T he levers. L feed hand, t short the purposes set forth. Second, The levers, L, feed hand, i, shaft, M, and arms, N, in combination with the tumblers, K, picker staffs, 1 1, and batten, B, substantially as and for the purpose set forth.

63,144.—HOOP FOR SKIRTS.—Thomas B. De Forest, Birming-

ham. Conn. I claim hoops for skirts formed by the introduction of elastic metallic warps in the fabrication of the hoop, substantially as described, as a new

article of manufacture. 63,145.-HOOP SKIRT.-Thomas B. De Forest, Birmingham,

Conn. I claim securing the hoop and tape by one or more indentations or enlarge ments of the hoops, substantially as herein set forth.

63,146.—APPARATUS FOR HATCHING EGGS.—Peter Degive,

New York City. I claim the screw, O, and rod, D, or its equivalent in combination with the train of greats, E, the door or damper, G, and hatching box, K, substantially as and for the purposes described and set forth.

63,147. - SEED PLANTER. - James Edge, Acquackanonck, N.J

N. J. I claim, First, The movable throat, s, at the base of the seed hopper, in combination with the seed-measuring disk, o (made changeable), and with the seed tube, d, as and for the purposes specified. Second, The frame, k, binged to a frame, a, and detachable as shown in combination with the hopper, r, wheels, i and c, pitch wheels, m and n, and seed-measuring disk, o, as and for the purposesset Torth.

63,148.-STEAM MOTOR FOR TOYS.-Philip Ely (assignor to

J. M. Keep & Co.), New York City. I claim the revolving boiler, C, provided at the center of its concave bot-tom with a conical projection, b, which is fitted on the rod, B forming the b-aring for the boiler and having its upper end the arms, D, and adapted to bear the strap or band, F, by which motion is communicating to the toy, E, as and for the purpose described.

63,149. - FEEDING MECHANISM FOR SEWING MACHINES.-

George A. Fairfield, Hartford, Conn. I claim the combination of the eccentric. H. operating upon a regulating lever, K. rocking shaft, L. cam. F. and feed bar, N. or their equivalents, to produce a tour-motion ieed, substantially as described. I also claim cam. M. having an eccentric surface whereby the feed bar is raised and dropped and hooks o. stops for producing horizontal motion in the feed bar.

63.150.—GRATE FOR STOVES.—Moses P. Farnham, Janes-

ville, Wis, assignor to self and Daniel P. Farnham, Janes-ville, Wis, assignor to self and Daniel P. Farnham. I claim, First, The supplemental fire box, A, for stoves and furnaces having a movable bottom or grate, D, that may be placed on different bearings, B, substantially as and for the purposes described. Second, The general arrangement of a supplemental stove fire-box with grate, D, bearings, B, flue, G, free grate, E, when the whole are constructed and arranged substantially as and for the purposes described.

63,151.--PLOW.-Joseph Fowler, Hartland, Wis.

First, I claim adjusting the draft vertically by the wedge, n, beneath the cross pln or T.front end of the plow standard in combination with the wedge, l, to camp the standard in the osem, as set forth. Second, The screw boll, i, or its equivalent, fitted as specified in combination with the standard, c, introduced in a mortise of the beam so as to adjust the draft horizontally, as set forth.

63,152.-PUMP.-Andrew Fuller and Francis J. Bray, Buffa-

lo, N. Y. We claim the elastic strips, A B and B, in combination with the staff, A and sucker, H, substantially as described.

63,153. - BED BOTTOM. - George L. Gerard, New Haven, Conn.

I claim the the combination of the clamp bolt, D, with the slotted spring, and the bar, C, constructed so as to operate in the manner described. 63,154.-RAKE.-Benj. F. Gladding, Providence, R. I. Ante-

dated March 10, 1867. First, I claim constructing the rate head double or of two pieces of metal secured together, substantially in the manner described for the purpose Second, The combination of a rake head, constructed as described, and a forked shank, the two parts being united, substantially as described.

63.155.—Apparatus for Regulating the Exhauster in

65,105.—APPARATUS FOR REGULATING THE EXHAUSTER IN GAS WORKS.—Joseph A. Harris, Philadelphia, Pa. First, I claim the within-described regulator consisting of a vessel inclos-ing two chambers partly filed with water communicating with each other and one chamber communicating with the main pipes, through which gas is exhausted from the retorts while the other chamber has a float connected to the throttle valve of the steam engine which drives the fan or other exhaus-ing device, all substantially as set forth. Second, The branch pipe, J, its enlargement, X, and valve, i, arranged in respect to the exhausting main and discharging pipe, substantially as de-scribed for the purpose specified.

63,156.-BRIDLE BIT.-William B. Hayden, Columbus, Ohio.

First, I claim a bridle, or harness bit which has its rein rings attached to the mouth piece by passing the check pieces through solid eyes formed on said parts substantially as described. Second, A bit which is composed of separately formed parts A, B, C and d, put together substantially as described.

63,157.-SASH FASTENER.-Gustave Franz Hedrich, Buffalo,

11. 1. Laim the improved fastener consisting of the combination of the sliding knob H, or its equivalent, pivote: lever C, provided with the bolt g, and spring e, arranged and operating substantially as set forth.

63,158.—ELECTRIC CIRCUIT-BREAKING CLOCK.—Edwin Holmes, New York, N. Y. I claim the combination as well as the arrangement of the circuit breaker B, its adjuster C, and the spring D, with a clock or time piece A, and an electric or electro magnetic circuit, the who.e being substantially as and for the purpose hereinbefore specified.

63,159.—METHOD FOR MAKING DIES FOR FIGURES IN PRESS DYED FABRIC.—John Holt, Lowell, Mass. I claim the method substantially as herein described of making the im-pression dies which produce the figures in press dyed fabric.

63,160.-ORE CRUSHER.-Bennet Hotchkiss and S. C. Good-

bol, IOU.—ORE CRUSHER.—Definet Hotchkiss and S. C. Good-sell, New Haven, Conn. We claim, First, The shaft F, with double cranks I I straps L and L', hammer C, box O, when constructed and arranged to operate together substantially as described. Second, The tubes S and T, when constructed as described and used n connection with box O, for the purpose substantially as specified. Third, Controlling the force and rapidity or the blows of the hammer by means of the treadle m, cord h, spring e, pulley f, and plate d, when operating as and for the purposes set forth.

63,184.—MEANS FOR PROPELLING CANAL BOATS.—Greenleaf 63,161.—RAILWAY TRACK.—B. B. Hotchkiss, New York Boston, Mass. Antedated March 13, 1867. I claim the wheels g, i, and clamp k, l, in combination with the radius arm b, horizontal driving shaft a, boat A, and rail b, constructed and operating substantially as and for the purpose described. 63,185.—PISTON PACKING.—Theodore Thurber, Auburn,

N. Y. Iclaim the construction and arrangement of a street railway track in sec-tions consisting of the cast iron cellular base parts in which are inverted blocks of wood fitting therein with the rails arranged upon the outersides of said track, and held in position as herein set forth.

63,162.—PAVEMENT.—B. B. Hotchkiss, New York, N. Y. laim fitting woo

63,168.-FOUNTAIN PEN.-George R. Melten, St. Louis, Mo.,

APRIL 13, 1867.

305,100.—FOUNTAIN FEN.—George K. Meiten, St. Louis, MO., assignor to Horace Baldwin, Painesville, Ohio. In combination with an air-tight and flexible ink sack, which is applied within the handle or holder of a fountain pen, so as to be free to collapse as the ink flows from it, 1 claim a tabe e, which extends beneath the pen f, and is provided with a vaive g, at the point of discharge, so that in the act of writing the ink shall be caused to flow to the pen, with greater or less iree-dom according to the force and rapidity of the strokes, substantially asspeci-fied.

field. Second, A fountain pen which is provided with a thin, air-tight, flexible sack, applied within the pen handle or holder, by means of a ring c, in com-bination with a removable pen sheath d, and supply tube e, substantially as described. Third, In combination with the flexible sack b, and with supply tube e, I claim the conical valve or plug g, acting as a regulator during the act of writing, and serving to close the aperture when there is no pressure applied to the nib of the pen, substantially as described.

63,169.-CURTAIN FIXTURE.-Purches Miles, New York, N.

Antedated March 15, 1867.

I claim the cord holder g, in combinat on with a cord for curtain fixtures, pon which cords are knots or projections substantially as and for the pur-oses specified.

63,120.—AsH SIFTER.—Charles F. Meyer, Troy, N. Y. First, in combination with a revolving drum sitter D, and right and left in-clined fixed guide plates H and H. I claim the reversing or shifting guide plate B, constructed and arranged substantially as described and operating in manner and for the purpose as set forth. Second, in combination with a drum sifter D, right and left fixed guide plates H and H', and a shifting guide plate E, I claim the employment ot two ash pans or boxes G, and G', arranged in manner and for the purpose as des-cribed.

cribed. Third, In combination with a revolving drum sifter D, right and left fixed inclined guide plates H and H', and two ash pans or boxes G and G, ar-ranged as show a, I claim placing the journals or the sulfting guide plate k, eccentrically, to operate in manuer and for the purpose as herein shown.

63.171.-KNIFE AND WATCH KEY COMBINED.-E. Q. Morton, (assignor to himself and Alpheus Patten), Bangor, Maine.

Antedated, March, 13th, 1867. I claim as a new article of manufacture the aggregation of the pen knife blade and watch key in one handle as set forth.

63,172.-CRoss Bow.-Edward C. H. Nye, Ascushnet, Mass. I claim the combination of the cross bow, the arrow magazine and a me-chanism for setting and discharging the cord of the spring of the bow the whole being substantially as he ambefore described.

63,173.-ROUNDING JACKS FOR TRIMMING BRIMS OF HATS.

55,113.—EOUNDING JACKS FOR 'IRIMMING BRIMS OF HATS.— Starr Polley, (assignor to Ambrose Hill.) Brooklyn, N. Y. First, I claim the cutter b, the head b1, adjusting serew C, removable bear-ings M, and contining means D combined and arranged for joint opera-tion on the silding block B, of the brim cutting instrument, substantially in the manner and for the purpose herein set. or the. Second, I claim the radial adjustable cutter b, in the brim-cutting instru-ment, substantially in the manner and for the purpose herein set fortn. Third, i claim the shield E, arranged in combination with the brim cutter and adapted to serve relatively to the adjustable cutter b, substantially in the manner and for the purpose herein set forth. Can define the shield E, arranged in combination with the brim cutter and adapted to serve relatively to the adjustable cutter b, substantially in the manner and for the purpose herein set forth.

63,174.—PROCESS FOR TREATING INDIAN CORN.—E. F. Prentiss, Philadelphia, Pa., and C. C. Parsons, Boston, Mass. We claim the process of treating Indian corn in the manner and for the pur-voses substantially as described.

63,175.—PREPARATION FROM INDIAN CORN.—E. F. Prentiss, Philadslphia, Pa., and C. C. Parsons, Boston, Mass. We claim the preparation from Indian corn, made substantially in the man-ner described.

63.176.—COTTON CHOPPER.—Koscinsko Puckett. Parish of

Morehouse, La.

I claim the combination of the driving wheel A, the balance wheel G, pinion B, shaft C, and hoe D, with the rrame E, and its appurtenances when their several parts are arranged and constructed as described for the pur-poses set forth.

63.177.-MACHINE FOR EMBOSSING ARTICLES OF WEARING

APPAREL.—George W. Ray, Springfield, Mass. First, I claim the roll c, covered or partially covered with a woven fab ic in combination with the roll d, substantially as described, and for the pur-pose set forth. Second, The plate p, in combination with the roll c, and roll d, one or more of these parts being covered, all substantially as described and forthepurpose set forth.

63,178.-CARPET BAG.-E. A. G. Roulstone, Roxbury. Mass.

50,170.—CARPET DAG.—L. A. G. ROUISUILE, ROADUTY, MASS. I claim in combination with the corners and slong the angle of the framesub-stantially as set forth. Also the manner of applying the flexible bag forming material to the frame, by means of the metal stripg, folded over the folded enge of the cloth or leather, and the edge of the rame, and secured to the frame by rivets or oth-fastening devices, substantially as set forth.

63,179.—CARPET BAG.—E. A. G. Roulstone, Roxbury, Mass. I claim the manner of connecting the flexible bag material to the frame by means of the strip d, and the frame groove b, the strip and cloth or leather, being first united and then connected to the frame as herein set forth and

described. Also the reinforcement of the corner, by leaving the goring piece g, in the frame, and turning it down against and so as to form part of the wall piece f as herein set forth and described.

63,180.—SIFTER FOR SAND, ETC.—Samuel C. Rundlett, Port-

land, Maine. I claim the sieve i, when suspended by the four chains i, and so operated by he means hereinbefore described as to swing from side to side and at each notion to strike the inner side of the frame A, as and for the purposes speci-

63,181.—SCRUBBING BRUSH.—S. C. Rundlett and R. Dodge,

We claim a scrubbing brush having the arrangement of the jointed handle , and rubber bandf, as and for the purposes set forth.

63,182.—SHAFTING COUPLING.—Silas C. Schofield, Chicago,

111. First, I claim providing the coupling forks or heads B, with gudgeons or their equivalents D, substantially as and for the purpose as specified. Second, I claim constructing the ring A, with two chambers a, provided with lateral opening b, substantially in the manner and for the purposes set fo th and shown. Third, I claim the combination of the forks or heads B, provided with the gudgeons D, or their equivalents with the chambered ring A, arranged and operating substantially as specified and for the purposes described.

63,183.—HEMP BRAKES.—Simeon Sherman, Weston, Mo. 1 daim the endless chains provided with bars or slais and operating in con-nection with the reciprocating rotary beaters, substantially as described. I over set or knives and the downward blow of the upper set are made to con-join their actions upon the interlying hemp substantially as described. I claim the combination with an endless carrier and reciprocating rotary breaker of a preliminary series of toothed rollers.

Stackpole, New York, N. Y., assignor to himself and T. Spear, Jersey City, N. J., and Cyrus and Darius Cobb,

Maine.

Ill.

N. Y.

(assignor to themselves and John L. Meserve), Portland,

63,138,—MANUFACTURE OF STONE WARE.—Edgar T. Chap-	ing blocks of less size than the cells and driving a packing H into the spaces	First, I claim the construction of the internal ring plate A, with ring cap B,
man, Middlebury, Oh10.	between the blocks and the sides of the cell, substantially as and for the pur-	fitted, leaving a steam chamber or recess a, between them and the metal ring packing c, so that it can be put in its place without opening or expanding
I claim a crock, constructed as hereinbefore described, being a new article		substantially as described.
of manufacture,	Second, I claim in connection with the above, the stopping material G, in-	Second, I claim the valves e e, as constructed in combination with the ring
	troduced in the bases of the cells opposite the bottoms of the blocks, and adapted to prevent the working of any of the packing under the wood, sub-	plate A, and cap B, operating from both sides or faces of the piston they be-
63,139.—GRAIN SHOVEL AND HANDLER.—Fayette Clark,	stantially as herein specified.	ing supported by the spring d, so that steam, gas or water forced into the
Marcellus, N. Y.		chamber a, is not exhausted or liberated at each stroke the internal force
I claim the principle of putting the labor of handling grain equally upon	63,163.—Extension Ladder.—Geo. L. Johnson, Fairfield,	being retained, thereby producing the result substantially as herein specified.
both hands, it being in shape like the accompanying drawing or any other	N. Y. Antedated March 15, 1867.	Third, I claim the combination of the skeleton frame and plate E, flange
snape substantially the same and which will produce the same effect, namely,	I claim the con.bination of the hook A, of the slide B, and socket C, all con-	plate A, ring cap B, face plate F, metal packing ring C, valves e e, and spiral spring d, all constructed and arranged to operate substantially as and for the
the placing of the weight of grain equally on both hands.	structed, arranged and operating in the manner and for the purpose speci-	purposes herein set forth.
63,140Fender For Corn PlowsRobert Cook, Franklin,		
· · · · · · · · · · · · · · · · · · ·		63,186.—IRONING MACHINE.—William M. Tobey, New Lon-
Ohio.	63,164.—NECKTIE.—George A. Keene, (assignor to himself	don. Conn.
I claim, First, The yielding and adjustable fender, D, attached to a plow	and Jos. E. Manning), Boston, Mass.	I cl im the shirt bosom ironing-machine made substantially as, and to ope-
beam by mechanism, substantially as and for the purpose specified.	I claim fastening wing piece, knob band and tie strip together and attach-	rate as described, viz: of the chambered polisher (to be heated as described)
Second, The construction of the aisks, C and C', for holding the fender, D,	ing the elastic ring by means of the clinch bar, as shown, illustrated and des-	the mechanism to operate or move such polisher, the platform for supporting
Operating substantially as and for the purpose described. Third, The combination of the lender, D, disks, C and C', with the beam	cribed.	the work, the mechanism for moving such platform laterally and vertically
plate, A, and spring, B, arranged substantially as and for the purpose de-	63,165MACHINE FOR GRINDING CARDSS. G. Ladd and	in manner as specified the whole being applied to a frame and so asto operate
scrived.		substantially as herei before explained.
49141 COMPANYED NAME DE AND I DESERTE I M	G. W. Crown, Lowell, Mass.	63,187.—WEATHER STRIP.—L. W. Turner, (assignor to him-
63,141.—Combined NAME PLATE AND LETTER SLIDE.—J. M.	We claim the two central shafts A C, revolving at different velocities,	self and G. S. Wilcox, Yalesville, Conn.
Combs, Boston, Mass.	causing the grinding cylinder to revolve by means of the hubd, and to re- ciprocate longitudinally by means of the hubk. groove g, pin h, slotf, and	
I claim the combined arrangement as and for the purposes set forth of a	pine, in the manner and for the purpose substantially as described.	I claim the combination of the lever D, with two sections A B, spring E, when the two sections are arranged so as to be operated simultaneously.
hame plate pivoted to a flange which has a metallic chute fixed thereunto		substantially in the manner described,
by which the flange and plate are held to the surface by which the back of	63,166WIRE BALE TIEOsborne Macdaniel, New York,	
saiu nange is in contact.		63,188.—Extension Ladder.—Calvin G. Udell, Chicago, Ill.
Also constructing the metallic chute in two pieces each with an exterior		First, I claim, in combination with a section or sections of an extension
flange and uniting and holding them in their place by means of the spring laten, f.		ladder, the pivoted catches, D, arranged and operating substantially as and
1000,1	substantially as herein described.	for the purpose specified.
63,142.—Scaffold.—Charles Crow, Onargo, Ill.	63,167.—TRUNK.—R. McMurray, Washington, D. C.	Second, I claim the combination of the sections, A B, the catches, D, and and bar, C, arranged and operating substantially as described.
l claim, First, The combination of the jointed rack, H, jointed standards.		
F, and bars, v, when constructed to operate the platforms, Z, substantially so	and for the purposes set forth.	63,189.—SAND TRAPS FOR WATER PIPES.—Joseph D. West,
set forth.	Also, I claim constructing and applying a trunk stay so that one end shall	New York City.
becond, The combination of the sliding bar, T U V, platforms, L, and	be drawn into the trunk frame, substantially as and for the purposes set	I claim the gauze or perforated diaphragm check, A, or its equivalent, re
frames, A B, substantially as set forth,	forth.	· · · · · · · · · · · · · · · · · · ·

^Cciver, C, hollow disk, B, orits equivalent, and induction pipe, D. whether provided with a valve cover or not, when all combined and arranged to geniter so as to operate substantially in the manner and for the purpose de-63,190.—CAR TRUCK AND SPRINGS.—Levi H. West, Cam

bridge, Mass.
I claim the combination as well as the arrangement of the additional levers, J claim the combination as well as the arrangement of the additional levers, Dⁿ Dⁿ, their springs, Fⁿ, Fⁿ, and supporting rods, cⁿ cⁿ, with the platform, A, the wheel ooxes, a a, and the levers, Dⁿ Dⁿ, rods, cⁿ cⁿ, and springs, Fⁿ Fⁿ. I also claim the combination as well as the arrangement of the springs, i e Fⁿ, and the suspension rod, cⁿ, with the lever, Dⁿ, the wheel box, a, and the ollatform. A.

f^{*}, and the suspension rod, c', with the lever, D, the wheel box, platform, A. I also claim the combination as well as the arrangement of the hanger, l, and the staple, h, with the platform, A, the wheel box, s, and the supporting levers, D' or D' D', applied to such box and platform. I also claim the couldnation as well as the arrangement of the springe, l, with the nanger, l, the box, s, the platform, A, and the supporting levers ap-plied to such platform and the wneel box or boxes, the whole being sub-stantially as hereinbefore specified. 63,191.-MACHINE FOR SHAVING HIDES.-T. F. Weston, Sa

10. MASS. I claim the use of the cutting, shaving, or scraping tool, having such motion imparted to it by any suitable arrangement of mechanical devices as to pro-duce a drawing cut upon the surface of the leather, as hereinbefore set forth and for the purpose specified.

63,192.- HARVESTER. - William N. Whitely, Jun., Springfield. Ohio.

field, Ohio. First, I claim the rake guide rail, N', and arch, S', when attached to the man frame by a bolt in front ot the cutting apparatus, and another bolt be-hind the said cutting apparatus, and without any connection with the plat-form, substantially us described and shown. Second, I claim in combination with the internal gear wheel, J, and its arriving pinion, M, the pitman, K, and rake, Q, substantially as and itor the purpose set forth. Turd, The combination and arrangement of the sector plate, C, curved standard, D, and standard, E, substantially as described.

63,193.-FRUIT JAR.-B. B. Wilcox, New Haven, Conn. leain the yoke, D, and divided ring, C, in combination with a jar, A, and cover, B, When constructed and arranged so as to operate in the manner herein set forth. 63.194.

-TAKE-UP FOR BRAIDING MACHINES-Gilman K.

Winchester, Providence, R. I. I claim the adjustable feed or take-upstand, so constructed as to be readily moved forward and backward to allow a larger or smaller worm wheel to be placed upon the feed-roll shaft to connect with the worm upon the worm shaft, substantially as and for the purpose set forth. 63,195.—Compound for the Cure of Glanders etc., in

HORSES.—John Althouse, East Cocalico Township, Pa. laim the composition of my powder for the cure of glanders and farcy in es, when comoined and administered substantially in the manner spesi T cl tied

16d. 63,196.—STOVE-PIPE DAMPER.—T. K. Anderson, Hornells-ville, N. Y. I claim the pivoted damper, B, stop, D, tube, E, and weighted lever, F, or its equivalent, comhined to operate together, and arranged with the stove pipe, A, substantially as described for the purpose specified.

63,197.-MANUFACTURE OF MATCHES.-Emery Andrews and

William Tucker, Fiskedale, Mass. We caim notching and dipping the cards preparatory to cutting the matches thereirom, substantially as and for the purpose specified. 63,198.-COMBINED STEAM AND AIR ENGINE.-John B. At-

water, Chicago, Ill.

water, Unicago, 111. First, I claim a desiccating or superheating chamber, E, which is combined with insteam ouler, and adapted for receiving and desiccating steam mixed with a.r. substantially as described. Second, The combustion chamber, D, when arranged in a steam boiler and supplied with air, substantially as shown, so as to effect the combustion of the gases, after they have escaped from the fire box or clamber, substantially as described. Third, The air injector operating upon the principle specified, in combina-tion with a desiccating clamber, E, substantially as described and for the purposes explained.

Third, The air injector operating upon the principle specified, in commun-tion with a desiccating enamber, E, substantially as described and for the purposes explained. Fourth, The arrangement of the steam generators, C C', with steam com-munications, B, leading into generator, C, above the water level therein, with respect to the desiccator, E, ubbetantially as and for the purpose described. Fifth, The darangement of the steam generators, C C', with steam com-incide of the steator, E, ubbetantially as and for the purpose described. Fifth, The desiccator, E, constructed as described, arranged within the direct of tubes for the purpose set forth. Seventh, The combination of an air chamber, G, and cock, P, with an ap-paratus constructed and operating substantially as described.

63,199.-ROTARY HARROW.-Caleb Bates, Kingston, Mass. I claim the combination and arrangement of the arms, b, axis, d, perforate rear bars, e, curved bar, E, and swinging blades, F, constructed and operat ing substantially as described for the purpose specified.

63,200.-TREE DIGGER.-Joseph H. Black, East Windsor,

N. J. $_{1}$, σ . I claim the employment of the plate, C_i constructed substantially as repre-ented and used in combination with the beams, AA, as and for the purpose et forth.

881 forth, 03,201.—ELECTRO-MAGNETIC APPARATUS FOR REGISTERING

VOTES.—John Blackie, New York City. I claim, First, The combination of aseries of hollow magnets for ejecting the bails as described, with the receiving troughs, c, and tubes, B, airanged to operate substantially as shown and described. Second, In combination with the tubes, B, open at their lower ends, I claim the drawer, D, provided with the stop, n, when arranged to operate as herein described.

63.202.—RAILROAD FROG.—N. P. Bowler, Cleveland, Ohio. i claim making railroad fr gs by the method and in tially as and for the purposespecified.

63.203.—VENT PEG AND VALVE FOR CASKS.—Stephen Bourne Headstone Drive Harrow, England.

HEALSTONE DIVE HAITOW, England. I claim a valve made of india-rubber or other elastic or suitable material whether in the form of a disk cone cylinder or any other proper shape, when said valve is provided with one or more perforations, slits, or other open ines, in such a manner that by the distension of the valve is perforations will be specide, but closed by its elasticity, substantially as and for the pur-poses described.

63,204.-DOOR LOCK.-Edward W. Brettell, Newark, N. J. First, I claim the encasing of a series of self-acting vertical-silding tum blers, with their operating dog, within an independent detachable case, sub stantially as herein shown and described.

Second, The dog, d, attached to the lever, B, so as to act independently of both the bolt and the lock case, substantially as herein shown and described. 63,205.—SHEARS FOR BRUSHES.—Charles Brombacher, New

York City. 1 claim the triangular opening in the bed shear, a, in combination with the swinging blade or shear, p, hinged directly to the shear, a, and acting as a clamp and cutter, as specified.

63,206.—Insulator for Telegraph Wires.—David Brooks

63,207.-REST FOR GRINDING TOOLS.-James H. Brown, Berea. Ohio.

I claim the stem, A, adjustable sides, D, pivoted to the arms, C, in combina-tion with the arms. H, hooks, G, and staple, D, provided with screws as and for the purpose setforti.

63,208.—Powder Mixer.—Jabez Burns, New York City.

Second, Thepulley, E, and the casting-off plate, F, constructed and operat-ing in combination substantially as described. 63,213.-WOOD-TURNING LATHE.-James Chase, Rochester,

N. Y N.Y. First, I claim the employment of a pattern knife or cutter in wood-turning lathes, rotating upon in axis, arranged at right angles or nearly so to the stick or timber which is being turned, and so geared to theframe of the lathe as to leave its pattern upon the stick, substantially in the manner and for the purposes set forth. Second, The employment of the pivoted box, M, which constitutes the axia bearing for the knife journator shaft, N, when the parts are arranged and operate substantially in the manner and for the purposes herein shown and described.

63,214.—Doon LOCK.—S. L. Chase, New York City. I claim, First, The circular ward, e, on the disk, b, substantially as and for the purpose described. Second, The bridge, h, in the circular ward, substantially as and for the

purpose set forth. Third, The partition, i, in the circular ward, as and for the purpose de-perihed

scribed. Fourth, The nose, f, on the disk, b, in combination with the key, the pins, C, stope, d, tumblers, B, and with the bolt, all constructed and operating sub-stantially as and for the purpose set forth.

UD,210.—APPARATUS FOR CARBURETING AIR, ETC.—William H. Clarke, St. Anthony's Falls, Minn. I claim, First, The arrangement of the plates, I I, in the cylinder, B, and providing the same with all pipes, D b, supply pipes, M M. discharge pipes, I L, and gas transmitting pipes, J J, substantially as and for the purpose specified. Second, The combination with the criticate. specified. Second, The combination with the cylinders, A and B, float, C, bellows, T, and tank, O, provided with lime and cotton as and for the purpose specified. Third, The arrangement of the pipe, H, with the pipe, H, for supplying heat to the machine from its own gas, substantially as specified.

63,216.—CHURN.—Joseph C. Clymer, Galvin, Ohio. 1 claim in a churn the cover, F, and its channel, c, arranged and operating as described and set fortin, in combination with the stuffing box, G, key, H, stirrups, I, and adjustable lever, E, substantially as and for the purpose set forth. I claim the channel, c, in a churn cover, arranged and operating as and for the purpose described.

63,217.—BREECH-LOADING FIRE ARM.—J. W. Cochran, New

York City. I claim, First, the sliding breech piece, A. and swinging brace, B, jointed cgether at a, and arranged for operation substantially as shown and de

regenter at a, and arranged for operation substantially as shown and de-scribed. Second, The arrangement of the elastic packing, D, with or in the movable breech at its forware and, operating not only to hold said breech when closed and make tight its joint in iron, out serving without restraining the self-adjustment of the breech piece to prevent concussion of i.e. latter against the "Third, The cartridge shell extractor, F, constructed with its rear end in-clined or beveled on its upper and lower sides, as at in, operating in connec-tion with the inclined recess, i, in the rear end of the receiver, c, substantially as and for the purpose set forth. Fourth, The shiding rod, H, with its forward lip, n, and rear projection or head k, hung and arranged for operation, in combination with the brace, B, hammer, G, and detongung D, hubbatally as specified.

63,218.-METHOD OF OPERATING RAILROAD SWITCHES.-

63,218.—METHOD OF UPERATING KAILROAD SWITCHES.— Gilbert M. Cole, Folsom C.ty, Cal. I claim, First, The mechanism herein userliked for rendering a ratiroad switch absolutely self-adjusting as thetrain approaches it on eitherbranch of the double track, in combination with the intechanism herein described, by which the engineer can render the switch self-adjusting as the train ap-proaches in opposite direction. Second, I claim the levers, b', the pinlon, a*, the sector, d, shaft, c, and and crank, c', in combination with the levers, a', pinlon, a, sector, d', and the loose wheel, b*, out the shaft of the loconotive truck, all constructed, arranged, and operating substantially as described.

63,219.—CORN PLANTER.—A. M. Corbit, Bethlehem, Iowa,

bigste.—Const i LANI ER.—A. M. Collit, Bellieffell, IOWA, First, I claim the combination of the plate, K, with the plate, L, and set screw, M, for the parpose of regulating the amount of seed through the holes, c , all made and operating substantially as herein shown and described. Second, I claim the cross bars, D T and G, which are so made and provided with holes that the scrapers, E, plates, K, and seed boxes, E, may be moved more or less apart, so as to permit the planting of the cornin rows of suitable distances iron: each other, substantially as herein shown and described.

63,220.-Machine for Soldering Metal Cans.-Edward I claim

T. Coveil, Brooklyn, N. Y. claim my improved solucing apparatus, consisting of a supporting plate, combined with a suitable soldering pan, A, constructed and arranged bstantially in the manner and for the purpose nerven set forth. 63,221.—AMALGAMATOR.—Francis W. Crosby, New York

City. I claim grinding or triturating pulverized ores when submerged in a bath of quicksilver or moiten lead, substantially in the manner and for the pur-

what the bottom often lead, substantiality in the manner and for the purpose literein specified. I claim also the combination of a hollow column or pillar, O, with the bottom of an amalagating vessel, B, and an enclosing furnace, H, substan-tially in the manner and for the purpose hereinset forth.

63,222.-COMBINED SHEEP HOLDER AND WOOL TYER.-A.

M. Culver, Bedford, Ohio. I claim the sides of the table, C' L as arranged in combination with the strap, K', and lever, S, for the purpose and in the manner described. Second, The arrangement of the sides, C L, and strap, K, in combination with the sole, C', shackle, J, bar, H, and lever, I, as and for the purpose herein set forth.

63,223:-CARRIAGE.-John Curtis, Cincinnati, Ohio.

UD,220.—UARKIAGE.—JOHN UURTIS, Uincinnati, Ohio. Hirst, Iclaim the bent strip, B U D E, of elastic timber forming the sills of the body proper and to take the place of the spring bar and body loops, as and for the parpose set forth. Second, I her bent and rebated strip of timber, L L N N', discharging the functions of the double perch and of the upper member of the firth wheel as set forth. the sills of

set forth. Third, Thearrangement of strap, P, screw, Q, and gland R, to enable the members of a fith wheel to beset up as they wear, in the manner explained. Fourth, in the described combination with the elements of claum Sd, 1 claim the pad or cushion, S, for the purpose stated. 63,224.-Rollers for Pulverizing Soil and Clods.

John Cluster, Corsica, Ohio. I claim the continuous single ring cutters, ss, secured by projections, a a, in grooves, e e, upon the periphery of the rollers, DD, arranged as and for the purposes herein described. The cleaners or scrapers formed of a corrugated metalplate secured to the cross bar, F, with the corrugations or volues, c c, placed between the cut-ters, s s, in the manner and for the purpose described.

63,225.—SPINNING BOBBINS.—J. Davis and S. W. Foster. Lowell, Mass.

We claim removing a portion of the lower end of the quill and slitting the end as snownatg, thereby forming the annular space, c, and the parts, d d, which act against the surface of the spindle, all substantially as and for the purpose set forth.

63,226.-STEAM GENERATOR.-R. W. Davis and D. Davis,

53,240.—COTTON CULTIVATOR. — KICHARD B. HERDERSON, Warren county, N. C. First, I claim the trane, A, running on wheels, B, and operating in com-bination with the hoes, substantially as and for the purposes set forth. Second, The crank, G, in combination with the handles, M, and hoes, N and O, substantially as and for the purposes set torth. Third, The hoe, N, when constructed and operating substantially as and for the purposes set forth. Fourth, The hoe, O, when constructed and operating substantially as and for the purposes set forth. Fourth, The hoe, O, when constructed and operating substantially as and for the purposes set forth. 63,226.—STEAM GENERATOR.—R. W. Davis and D. Davis, Long Island City. N. Y. First, We claim the arrangement, over the body of the boller and within the smoke box, of a series or circle of superheating spheres, G, connected and applied to circulate or pass the steam received from the boller succes-sively through them, substantially as specified. Second, The combination with a steam drying chamber or dome, E, of a series or circle of superheating spheres, G, both arranged within the gmoke box of a vertical boller for operation in connection with each other and with a steam generating space or chamber below, essentially as described. Third, The combination with the smoke box and body of the boller, of an inner and outer series of smoke tubes and combustion or heating chambers, the inner series having their draft contracted relatively to the outer series, essentially as and for the purposes herein net forth.

resting upon Gross piece, b' whereby any lateral movement is prevented, as herein set for th.

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63.232.—Saws.—J. E. Emerson, Trenton, N. J.

First, I claim the springs as shown at B or E, either as a part of the saw plate itself, or made separate and firmly attached and instead to the saw plate or cutter disk when used for holding the teeth or cutters as herein de-scribed.

scribed. Second, I claim the combination of the saw plate, and the spring as shown at B or E, when made separate from said plate with the tooth, C, when fitted and arranged substantially as described and for the purposes set forth.

63,233.—HOOP SKIRTS.—August Fellheimer, New York City. I claim the looped ends to the hoops of the skirt, of that class hereinabove referred to and substantially as and for the purpose specified.

63,234.-HOOP SKIRT.-Lewis Fellheimer, New York City. 05/254.—HOOP SKIRT.—LEWIS FEIHELINET, NEW FOR OUT, I claim the skirt with the lower hoops passing entirely around the skirt and the upper ones secured to the stay, a', and provided with the gathering b', attached to the waise band and having at its rear the training device, cou-sisting of the bands, C, strings, d, and band, d', when all parts are combined and airanged in the manner herein represented and described.

63,335.-PUMPS.-Eli Flanegin and A. B. Smith, Pittsburgh,

Pa. Pa. We claim the floating weight, P, counter weight, Q, pinion pulley, N, rack bar, M, and balance weight, L, arranged and operating together, substan-tially as and for the purpose herein specified. Albort M Force (assignor to him-

63,236.—MEAT SLICER.—Albert M. Force (assignor to him-

self and A. H. Vaugn), Norwich, Conn. First, i claim the outwardly daring bar, F, secured to the holder, A, operating in combination with the adjustable slotted kalle, E, substantially as and ior the Durpose spectured. Second, The slicer, the part/of which consist of the handle, B, holder, A outwardly flaring bar, F, suoted knife, E, set screw, b, set screws, I, substan-tially as described.

63,237.— Hot Blast Apparatus for Furnace.—Job

Froggett, Youngstown, Ohio. I claim a not blass arrangement whereby the ai is heated by passing through cylinders which are connected together on the outside of the heat-ing chamber, substantially as herein snown and described.

63,238.-EVENER FOR WHIFFLETREE, ETC.-Merritt Gally,

Marion, N. Y. I claim the body of the evener, A, with stops, E E', the projecting levers, C C', and pivoteu bars, B B B' R', combined and constructed as herein set forth for the purposes mentionea.

63,239.—CAR COUPLING.—J. B. German, Walnut Hills,

3,239.—CAR COUPLING.—c. Ohio. First, I claim the self releasing car coupling, 'composed of the draw head, "warsherv hooked bar, B, formed with shounders, c.c., the spring, D, and "warsherv hooked bar, B, formed with shounders, c.c., the spring, D, and "warsherv hooked bar, B, formed with shounders, c.c., the spring, D, and A reversely hooked bar, B, formed with shounders, cc', the spring, D, and coupling pin, B, combined and adapted to operate in the manner set torta. S. cond, The combination or the lever, F, nooked bar, B, spring, D, and coupling, pin, E, constructed and arranged to operate, substantially as set

forta. Third, The connecting bar, B, having reversely directed hooks, b b, and shoulders, C C, and capable or instant releasement when in direct line by with drawai of the coupling pin, E, or by advance of the lever, F, or when out of direct line by the an omatic action of the parts in the manner set forth.

63,240.-MELTING AND SMELTING FURNCE.-Jacob Green, Norristown, Pa. First, I claim subjecting ores to the action of the products of combustion, n afurnace where the gases are confined under pressure, substantially as

and for the purpose described. Second, The combination with a smelting furnace of pipes through which currents of steam and air can be introduced among the products of com-bustion previous to the latter being broagnt into contact with the ore for

bustion previous to the latter being broaght into contact with the ore for the purpose specified. Thurd, A biast pipe so arranged in respect to the hearth and the fireplace of a smelting furnace, as to direct the products of combustion in a blast on to the nearth for the purpose set forth. Fourth, A chamber of chambers, H, through which the ore is admitted to the furnace, when the skid chambers are arranged in respect to the bed and to the increase, bub ed. r, stack, G, inclined passage, H, with its openings, substantially as and for the purpose set forth. Sixth, The combustion of the two increases, D, stacks, G, g passages, H H, beds, F F, and basin, E, the whole being constructed and arranged substantially as specified.

63,241.-GLASS FURNACE.-Jacob Green, Norristown, Pa.

50,241.—GLASS FURNACE.—JACOD GREEN, NOTISUWII, TA. First, I claim subjecting the materials of which glass is to be formed, to the action of the products of combastion under air pressure by blasts within a furnace as set forth. Second, the combination of a glass furnace with pipes so arranged, that the blast of air and sheam can be introduced among the products of combine-tionherore the latter are orought into contact with the contents of the pots of cruciblesion the purpose specified. Third, The combination what a glass furnace of a blast pipe and openings so arranged as to threat the products of combustion around the pots, substan-tiant as settorth.

BO sitalges as to the out of the product of the set of

63,242.-LOCK FOR TRUNK, ETC.-Charles Gschwind and

We claim the application to a lock of the dog, D, and its combination with the notcled spring caten, B, and boit, C, substantially as herein shown and described. Second, We claim a lock which is so constructed that it can only be opened by reversing the position of the key, in the key hole, substantially as and for the purpose herein snown and described.

63,243.-MACHINERY FOR NICKING SCREWS.-N. B. Hadley

I claim uniting the spindle, D, with its driving power by means of the mov-ble latch connection, e, or its equivalent arranged and operating substan ally as described for the purpose specified.

63,244.—HORSE HAY FORK.—George W. Heath, Burlington

I claim in combination with the bars, $\mathbf{A}\mathbf{D}$ and \mathbf{G} , the curved handle, \mathbf{E} and points or flukes, \mathbf{C} , and \mathbf{F} , when the same shall be constructed and operated substantially as shown.

63,245.—PASSENGER REGISTER.—William Helffricht, Phila

pose described. Third, The plate, E, with its transverse slot, f, arranged within the case respect to the rollers, C and C, as set for th for the purposes, scille d. Fourth, The steadying and rulding pins, 14, secure case and adapted to holes in the other portion as an sor the purpose herein

63,246.—COTTON CULTIVATOR. — Richard B. Henderson,

Providence, R. I., assignor to The International Screw

Charls Reichardt, Union Hill, N. J.

Company.

Pa.

pos

case and a set forth.

I claim the spiral flanges, fr', running in opposite directions, in con-tion with the movable head, c', drum, A, and standards, B, with band fi rollers, constructed and operating substantially as and for the purp-rollers, the standard standard standard standards and for the spiral standard standar with band friction forth

63.209.--AIR PUMP.-Daniel Carpenter, Peekskill, N. Y. OJ, ZUU.—AIR FUMP.—Daniel Carpenter, Feekskill, N. Y. First, I claim the mech mism herein shown and described for operating the valve, E, automatically by the same power which operates the piston, so that the valve is opened and closed and the piston raised and lowered, substan-tially in the manner herein set forth. Second, I claim the piston, F, and valve, E, when so constructed that the piston its perfectly over the valve, so that all the air is completely forced out of the cylinder, A, at each stroke of the piston through the valves, c c, substantially asherein shown and described. Third, I claim the perforsted piston, F, in combination with the ring, d, and concial plugs, c c, all made and operating substantially as herein shown

And described. Fourth, I claim the arrangement in the chamber, B, below the valve, E, of the valve operating parts, substantially as and ior the purpose herein shown and described. Filth, a claim the box, G, when constructed as herein shown and described. Filth, a claim the box, G, when constructed as herein shown and described, and when provined with braces, H i and K, all made as set forth, in combine-tion with the pipe, f, and air pump, A B, the latter below the set forth, in combine-substantially as herein operations. then provided with braces, H i and K, all made as set forth, in combina-ith the pipe, f, and air pum p, A B, the latter being made and operating utabily as herein shown and described.

63,210.-WASHING MACHINE.-C. L. Carter, Union, Ind.

I claim the arrangement of the perforated box, C, and compresser, D E, and the strap, G, constructed and operating in the manner and for the pur-pose herein specified.

63,211.—BROOM HEAD.—Orlando L. Castle, Upper Alton, Ill. First, I claim the ase and employment of a spring, B, for the purpose and operating substantially alter the manner herein set forth. Second, A combination of the spring, B, the wedge, C, and the nuts, nn, with the sheath, A, arranged and operating substantially as herein described and for the purpose herein set forth.

63,212.-MODE OF ELEVATING HAY FORKS.-John H. Chap

man, Utica, N. Y. First, I claim in a hay-fork elevating apparatus, or the like, the post, A, in combination with the draft rope, G, and ground pulley, H.

essentially as and for the purposes herein set forth. Fourth, The combination of the superneating spheres, G, arranged as de-scribed, smoke box, D, and outer row or series of emoke tubes, C, arranged relatively to the spheres, substantially as specified.

63.227.-AUTOMATIC BOILER FEEDER.-Henry O. Demarest,

b5,227.—A block of the second seco

63,228.—HAMMER.—Robert Devereaux, Buffalo, N. Y. I claim attaching's a hammer or analogous tool to its handle by means of the plate, A, when said plate is constructed and applied to the handle as de-scribed, in combination with the recess, 6%, in the eye of the hammer to re-ceive the plate, substantially as set forth.

-BURNING OIL.-Henry C. Dewitt, St. Louis, Mo. 63.229.-

I claim, First, The mixture formed from and by action of the ingredients, A B C F H and I, substantially as described and as set forth. Second, The mix ure formed from and by the action of the ingredients, A B C D F F G H and I, substantially as set forth.

63.230.—Locks.—Walter Dickson, Albany, N. Y.

63.230.—LOCKS.—Walter Dickson, Albany, N. Y. I claim, First, The arrangement of the tumbler, H, to operate within the holow spindle, E, substantially as herein specified. Second, The combination of the tumblers, H, within the hollow spindle and the key inserted into the earl of the said spindle and penetrating into the end of the said tumbler, substantially as herein specified. Third, The stump, Cd, arrange in connection with the bolt, C, and in re-lation with the hollow spindle and the tumbler, H, within the spindle, sub-stantially as herein specified. Fourth, The application to a lock of a key having its body formed of a true spiral twist like use of a screw augur with a matrix corresponding thereto formed within a movable block or blocks, the key passing through said matrix to act on the iollower in the manner and for the purpose specified.

63,231.—CLOTHES PIN.—William M. Doty, New York City. I claim thewire clothespin, A, having the arm, b, doubled and secured thereto as at b, forming a loop, the arm, a, passing through said loop and

for the purposes set forth. Fith, The noc, P, when constructed and operating substantially as and for the purposes set forth. Sixth, The extension frame, H, when constructed and operating substan-tially as and for the purposes set forth. forth

ination with the machine h

63,247.-STEAM GANG PLOW.-W. H. Heydrick, Chesnut Hill, Pa.

Hill, Pa. First, Iclaim theshaft, k, rotated by the clutch connection or by hand, as desired and operating by means of a spiral scries of cama, to elevate the plow consecutively iron the ground, substantially as described. Second, The shaft, o, rotated by the clutch connection or by hand as de-sired, and operating by a spiral scries of cams, to trip the dogs or their equiv-sited consecutively to lower the plows to the ground, substantially as de-

Third, The combination with the cam shafts, k o, of the levers, g, and spring dog, t, operaturk substantially as described. Fourth, The arrector wheel, b', shaft, a', and bar, z, constructed and operating substantially as described. Fifth, 1he bar, e', supporting the cord pulleys and adjustable by devices,

operating substantially as Fifth, The bar, e', suppor substantially as described.

63,248.-ELEVATOR.-Edward Hicks, North Hemstead, N. Y.

63,248.—ELEVATOR.—Edward Hicks, North Hemstead, N. Y. First, I claim the application and use of the movable side plates, in , ar-ranged and operating subsantially as and for the purposes set torth. Second, Supporting one truck of the car, so that it can rise and fall in re-spect to the car, substantially as and for the purposes set torth. Third, The arrangement of the cross bar, g, or its equivalent for support-ing the end of the car, substantially as and for the purposes set forth. Fourth, The combination and arrangement of the pulley, f, and block, g, or their equivalent, or elevating wheels, b, and releasing the car, operating substantially as set forth. Fifth, The combination and arrangement of the block, g, spool, d, and supporting brace, f, or their equivalents, for holung and releasing the fork and load, and operating substantially as set forth.

63,249.-MANUFACTURE OF LEAD FOIL COATED WITH TIN. Dauphin S. Hines, Brooklyn, N. Y. assignor to John J.

Crocke, New York City. I claim the process substantially as described for making foil of lead coated with the on both sides by inserting a plug of lead within a pipe male of tin and then tolling the compound ingot thus formed, as set forch.

63,250.-Tool for Cutting off Boiler Tubes.-Peter

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63,250.—100L FOR COLLARS CITER OF THE STATE OF THE STATE

63,251.-HOISTING APPARATUS.-George L. and William M. Howland, Topsham, Me.

HOWIADG, TOPSham, Me. First, We claim the pawls, G and I, arms, g'andi' and links. i and J, in combination with the apring lever. H. bars, A and B, and lever, D, all made and operating substantially as herelu shown and described. Second. The pawl, m, in combination with the pawls, G and I, and with the bar, B, substantially as and for the purpose herela shown and described. Third, The pin, I, and pawl, m, in combination with the band, n, arm, g, and spring, p, all made and operating substantially as set forth. 63 252 — Capperden Curr Flice Menteurs N.

63,252.—CARRIAGE CLIP.—Elias Hoxir, Montezuma, N. Y. First, I claim the joint when formed by bending the two external joint pieces, C C, on to the solid stand, D, as above set forth. Second, in combination with the above, I claim the thill iron, A, when used as and for the purpose above described.

63,253.-SKIRT WIRE.-George W. Hubbell (assignor to him self, W. E. Houston, and J. R. Lattin), Birmingham, Conn.

CONN. I claim a cord or edge formed upon the wire from the same material with which the wire is covered, substantially as herein set sorth.

63,254.-CONVERTING MOTION.-Wm. H. Hurlbut, Elgin, Ill I claim the spiral fanged cam, B, having its ends constructed as described, in combination with the cross head, A, and pins, a a, of a steam cn2ine, or with an equivalent part of any other motor, and with the shaft, C, the whole heing constructed, arranged, and operated substantially in the manner and for the purpose set forth.

63,255.—Non-conducting Composition for Covering Boil-ERS, ICE HOUSES, ETC., TO IMPEDE THE PASSAGE OF HEAT.—John Allcock Jones, Middlesboro on Tees, En-

gland. First I al

grinted. First, I claim the application and use, for the purpose of impeding the pass age of beat or caloric, of peat, turf, bog, siltor, or other similar accumula tions of vegetable, or partly vegetable and partly earthy matter, either alone or in combination with other ingredients, as hereinbefore described. Second, The molding of the said material or composition into cakes and bricks, and the subsequent application of the same, in that form, for the pur pose sneetified pose specified.

63,256.-MANUFACTURE OF VINEGAR.-Gerhard Kamps, Pitts

burgh, Pa. I claim the mode of manufacturing vinegar from any vegetable substanc containing saccharine or farinaceous qualities, as herein specified. 63.257. - STEAM-ENGINE LUBRICATOR. - Heinrick Kessley

Caub City, Duchy of Nassau. I claim the combination and arrangement of the tube, C, vessel, N, net rork in the tube, F, valves, D and E, and the spring, G, substantially in the manner and upon the principle, as herein set forth.

manager abd upon the principle, as herein set 10rth.
63,258.—PRESS.—David King, Aberdeen, Ohio.
First, I claim the rack, O gear wheele, J and K, in combination with the screw shaft, I, and such G, substantially as shown and described, and for the purposes set to th.
Second, I claim the nut, P, made in sections, as herein shown and described, in combination with the shaft, I, sash, G, and posts, A and B, substantially as and for the purposes herein set forth.

63.259.—Apparatus for Drying Straw Board, Sheets of

55,259.—APPARATUS FOR DRVING STRAW BOARD, SHEETS OF PAPER, etc.—Robert T. Knight, Philadelphia, Pa. First, I claim a chamber communicating with a fan or other blowing or ex-hausting apparatus, and having any desired number of bars, D D, or their equivalents, for the reception of detachable slats, F, or their equivalents. Second, The construction and arrangement, substantially as described, of the lower slats, G, for the purpose specified.

63,260.—GANG PLOW.—H. P. Kynett, Lisbon, Iowa. I claim the combination of the slotted cross piece, E, sldepiece, S, bolts, f, perdamts, c, adjustable clevises, d, and beams, F, substantimity as described for the purpose specified.

63,261.-MACHINE FOR POUNCING HATS.-John L. Labiaux Newark, N. J., assignor to himself, C. Courtois, P. W. Vail, and Wm. C. Griswold, Newark, N. J., and N. B. Day and Julius Sheldon, New York City.

Day and Julius Sheldon, New York City. First, I claim the combination of the levers, e e', respectively with the shafts, E E', spiral spring, g g, block, G, or roller, H, substantially as and for the purposes herein shown and described. Second, I claim the combination of the disks, C or C', and handie, I or I', with the pln, I, and flange, b or b', on the Dosts, B or B', all made and operat-ing substantially as herein shown and described. Third, I claim the combination of the metal pouncing roller, H, with the wedge, I, ring, m, and shaft, E', arranged to operate substantially as and for the purposes herein shown and described.

63,262.—DRILL SPRING FOR QUARRYING STONE, etc.—Eben

63,263.—Embossing and Perforating Paper, etc.—Chas

Lang, New York City. I claim the new mode of manufacturing embossed and perforated goods out of paper linen, cotton-lined paper, paper mixed with cotton threads or linen threads, cotton cloth, linen cloth, or similar material, by means of the machine, substantially as described, the rollers, two of which contain the de-sign, depressed and raised, and the third acting, by its pressure, as perfora-tor, between which said rollers a strip of paper or other material is passed, and is embossed, perforated, and cut during its passage, substantially for the purpose set forth.

63,264.-WATER EJECTOR.-Henry S. Lansdell, New York

City. First, I claim the arrangement of the two or more water inlet pipes or noz-zies, m m, in relation with the nozzle, s, of the jet pipe and liquid-receiving chamber, substantially as and for the purpose spredled. Second The combination with a steam siphon or ejector of an escape valve, p, applied to the jet pipe. G, for operation, substantially in the manner and for the purpose specified.

63,265.—MACHINE FOR MAKING PAPER ALLUMETTES.—B. B.

05,200.—MACHINE FOR MAKING FAPER ALLUMETTES.—B. B. Lehman, Lebanon, Pa. First. I claim the circular saw or cutter, ß, having knife-edged teeth oper-ating substantially as and for the purpose herein described. Second, in combination with the above, I claim the carrier, F, substantial-ly as and for the purpose herein specified. Third, I claim the creasing or pressing rollers, operating substantially as and tor the purpose berein set forth. Fourth, I claim the felder, D, in combination with the creasing and press-ing rollers, substantially as and for the purpose herein set forth. Fifth, I also claim the inclined plane, H, operating substantially as and for the purpose herein specified.

63,266.-PULLEY FOR BELTING.-Moses Lewis and Samuel Miller, Greenville, Conn.

Miller, Greenville, Conn. e claim the tapering or conical pulleys, B E, over which the twisted belt freulates, arranged on shafts, A D, at right angles to each other, for the pose described, in the manner apecified. 63.267.—CHEESE Box.—Nathaniel and Friend Lewis, Adams

N. Y.

other parts may move relatively thereto, substantially in the manner and for the purpose herein specified. 63,273.-CLOTHES WRINGER.-David Lyman, Middlefield,

b5,275.—CLOTHES WRINGER.—David Lyman, Middleneid, Conn.
First, I claim in combination with the shafts, c d, cranks, c' d', and con-necting rod, G G', or swiveling guide, H, operated so as to retain the central poeition, closing the greater or less divergence of the shafts, substantially as and for the purpose herein set forth.
Second, I claim in a clothes wringer having diverging jaws, a spring op-erating on both pairs of jaws and acting as both spring and brace therefor, su betautially as herein set forth.
Third, I claim in a clothes wringing machine, substant.ally as herein de-scribed, the gripping arm, L, and spring, k, operating substantially as herein

63,274.-TABLE-LEAF SUPPORT.-John A. MacKinnon, Reading Pa.

I claim the straight levers, A, hinged at one end and notched at the other when constructed, combined, arranged, and operated by the lever catch, G solral: pring, H, and button, K, as herein described and for the purposes set forth.

63,275.-METAL CASE FOR SPRING BOLTS.-Eli J. Manville,

Waterbury, Conn., assignor to Turner, Seymour & Judds, Wolcottville, Conn. Iclaim the combination of the mandrel, a, and dies, b c d and e, to which movements are comminicated in substantially the manner specified for bend-ing up a sheet-metal case with flanges at its ends, as set forth.

63,276.—PLOW.—Seth March, Norfolk, Va. 1 claim the frame, the mold board, the heel, D, and the weeder, substan tially as described. 63.277.—CAR COUPLING.—Arthur McCarter, Lancaster, Pa

I claim the combination and arrangement of the slotted casing A, with its stot. D, with a terminal recess, D' together with a stationary or yielding stand post, F, with its link notch, g, all arranged and operating in the manner and for the purpose specified.

63,278.—SwING.—John A. McClain, Philadelphia, Pa. First, I claim the vibrating frame. P 0 O' P, and springs, S S', whether metallic or otherwise, when constructed and combined in the manner and for the purpose above described and set forth. Second, The combination of upright, A A, and vibrating frame, P 0 O' P, rope and foot board, R and F, springs, S' S, and suspenders and seat. S P and S, the whole combined and constructed for the purpose in the manner afore-said described and set forth.

63,279.-MACHINE FOR MAKING FRUIT BASKETS.-Henry

63,279.—MACHINE FOR MAKING FRUIT BASKETS.—Henry Mellish, Walpole, N. H., assignor to David Lyman, Washington Whitney, and Gilman Waite.
First, I claim the cutter, H, con tructed substantially in the manner and for the purpose above specified.
Second, I claim the holiow cylinder, C, in combination with the main cut-ter, H, arranged to operate substantially in the manner and for the purpose above set forth.
Third, I claim the head cutter, I, when in combination with the main cut-ter, H, automatication of the purpose above described.
Fourth, I claim revolving a log agains a cutter or cutters arranged to move gradually in a direction parallel to its axis, for the purpose of cutting a heli-cal coll suitable to be divided into pleces that, when sprace from their heli-cal coll suitable to be divided into pleces that, when sprace from their heli-cal coll suitable to be divided into pleces that, when sprace from their heli-cal coll suitable to be divided into pleces that, when sprace from their heli-cal coll suitable to be divided into pleces that, when sprace from their heli-cal coll suitable to be divided into pleces that, when sprace from their heli-cal coll suitable to be divided into pleces that whet sprace from their heli-cal coll suitable to be divided into pleces that whet approxed from their heli-cal coll suitable to be divided into pleces that whet approxed from their heli-cal coll suitable to be divided into pleces that whet approxed from the sprace from the manner as above described.

63,280.-MACHINERY FOR CUTTING THE BOTTOM OF FRUIT

BASKETS.—HENRY FOR CUTTING THE BOTTOM OF FRUIT BASKETS.—HENRY Mellish, Walpole, N. H., assignor to David Lyman, Washington Whitney, and Gilman Waite. First, I claim the grooving cutter, 18, so mounted on the quadrant or plate, C, on the head, B, that it may be moved inward thereon and produce an undercut groove adapted to receive and hold the properly formed mate-rial driven therein, substantially in the manner and for the purpose herein sciorth, Leishnthe and B is combined.

set forth. Second, I claim the rod, E, in combination with the hollow arbor, A, and the surface, D, adapted to operate the plate, C, with its cutters, Cl C2 C8, and move it inward when required, substantially in the manner and for the pur pose herein set forth.

(63,307.—LEATHER SCOURING MACHINE.—A. W. Roberts (assignor to P. Jewell & Sons). Hartford, Conn.
First, I claim the rotating plate, T, sliding plate, T', guide way, T'', or their equivalents, in combination with the table, s', to pr oduce a transverse movement of the table with the guide ways, B'', substantially as described.
Becond, In combination with the above l claim the table, S, to produce a transverse movement of the table with the guide ways, B'', substantially as described.
Third, I claim the employment of an oscillating, adjustable tool holder with the guide mays, B'', substantially as described.
Fourth, I claim the employment of the adjustable shaft, H, or its equivalent, substantially as described.
Fifth, I claim the employment of the springs, K, secured to the arms, H', and bearing upon the tool holders, I, extending in an opposite direction irom that to which the springs are secured; for the springs, K, imparting pressure from one to the other, substantially as shown and described.
Sixth, I claim the aiternae, G G, in combination with the arms, F'', arms, E, rock shafts, F'. and their connections, for lifting the tools from the table, substantially as shown and described.
Sixth, I claim the arms, G G, in combination with the srms, F'', arms, bie, substantially as shown and described.
By the following the errors, H', upon an independent shaft, H, to more perfectly utilize their action.
Mith, I claim the employment of slide dogs, P'', ortheir equivalents, for holding up the tools from the tool scock, C, is in motion.
The purpose as shown and described.
By the following the employment of the server, with t c earm, J or their equivalents, for holding up the tools from the sole scock, C, is in motion.
The purpose as shown and described.
By the following the employment of the server, with the earm, J or their equivalents, for holding up the tools from the work while the scole sco 63.281.—STEAM ENGINE.—J. V. Merrick. Philadelphia. Pa. First, The combination of the annular cylinder, A, its piscon, E, two or more piston rods, m m, piste, or cross head, k, rods, n n, cross head, G, con-necting rod, i, and crimk, h, the whole being arranged and operating sub-stantially as and for the purpose herein set forth. Second, The combination of the above with rods, m'm'. for the purpose

63.282.—CHURN.—Daniel E. Merrill, South Paris, Me.

03,252.---UHURN.--Daniel E. Merrill, South Paris, Me. First, I claim making the horizontal arm, d', of the standard, D, adjustable so that it may be extended or contracted substantially as herein shown and described and for the purpose set forth. Second, The combination of an adjustable slide or socket, J. with the bal-ance wheel, G, for the reception of the end of the arm, K, adjustably attached to the dasher handle, E, substantially as herein shown and described and for the purpose set forth. The distribution of a large statistic statist

the purpose set form. Third, Combining an air pump, m, with the churn, A, in such a way that the discharging pipe, m², of said pump may enter the churn through the mid-die part of its bottom, substantially as herein shown and described.

63,283.—PAINT CAN.—Hermann Miller, Hoboken, N. J.

I claim a wooden cover, B, which is screwed to the paint can, A, for the phrpose of easily opening and reclosing the same, substantially as herein shown and described. 63,284.—STREET CROSSING AND SEWER INLET.—Joseph A.

63,284.—STREET UROSSING AND SEWER INLET.—JOSEPH A. Miller, New York City. First, I claim the arrangement of a trongh the bottom of which slopes down from its ends toward the middle, in combination with a street crossing made of perforates plates of metal or other suitable material and with a pipe extending from the lowest part of the trongh down into the sewer, substan-tially as and for the purpose described. Second, The sewer inlets, b, and aprons, c, at the ends of the trongh, B, in combination with pipe, C, extending from the lowest portion of the trongh down in the the sewer, D, substantially as and for the purpose set forth. Third, The application of the stench trap, E, in combination with the pipe, C, sewer, D, trongh, B, and crossing, A, all constructed and operating sub-santially as and for the purpose described.

63,285.—PACKING FOR PISTON RODS.—Wm. H. Miller, Phila-

delphia, Pa. I claim a new manufacture consisting of packing composed of a filting of fibrous or other materials covered with cotton, woolen, or other yarn, sat-urated with powdered soapstone or equivalent material and wound around the filling, substantially as shown and described.

63,286.—PORTABLE BOILER FOR PITCH, ETC.—Luke S. Mills,

63,286.—PORTABLE BOILER FOR FITCH, ETC.—LURC C. ALL., Brooklyn, N. Y. First, I claim a portable boller formed with an arched fire chamber, and an exterior shell contracted toward the top and for the purposed specified. Second, I claim a portable boller formed with dides to set down upon the ear th or pavement, an arched fire chamber provided with doors at the ends, a smoke pipe offlue passing off from the top of the fire chamber through the boller, and a morable cover to give access to the contents of the boller, sub-stantially as set forth. Taird, In combination with a portable boller formed as aforesaid, I claim the jacket of felt, and cover, I, asset forth.

63.287.-HEATING STOVE.-Geo. R. Moore, Lyons, Iowa

First, I claim the insulation of the tops of heating stoves, substantially in the manner and for the purposes set forth. Second, The chamber in the front part of the stove between the door, E, and upper part of plate, H, when constructed and arranged as and for the purposes set forth.

and furnaces on steam boats, to protect them against fire, substantially as

63,294.—MOP SQUEEZER.—E. P. Porter, Morrisville, Vt. lolaim the jaws, D. lever, H. and treadle, J. arranged and operated as herein described in combination with the movable platform, B, for the purpose set forth.

63,295.-DOOR LOCK.-E. D. Porter and G. W. Hallett, Water-

ford, N. Y. First, We claim the spring catches, H, whether more or lessin number in combination with the bolt, B when arranged together substantially as and for the purpose described, Second, The catch, X, in combination with the bolt, B, substantially as and for the purpose specified.

63,296.—FENCE.—Aaron W. Pratt, Pulmeyville, N. Y. Icisim the sill, E, the posts, A, the cap, d, the pales, b, and the wire strands c, the whole arranged constructed and operating substantially as herein de-scribed

scribed. 63,297.—BRIDLE BIT.—Joshua C. Price, New Philadelphia, Ohio.

curio. I claim the movable or sliding levers or sides, B B, when applied substan-tially as and for the purpose sof forth and described. 63,298.—Composition for Destroying Insects.—Daniel R.

Prindle, East Bethany, N. Y. Iclaim the composition of coal tar and petroleum, in the manner and for the purpose here in specified

63,299.-HYDRAULIC PAINT.-Daniel R. Prindle, East Beth-

any, N. Y. I claim a paint composed of pulverized hydraulic lime and skim milk either with or without the addition of chrome, yellow. or other pigment, as herein specified. In combination with the above I also claim the use of linseed flour, as set forther a

63,300.-PROCESS OF PRESERVING WOOD AND TIMBER.-

Daniel R. Prindle, East Bethany, N. Y. I claim the application of coal tar, common tar, or equivalent substance, r the ingredient thereof, to wood and timber successively, substantially as pecified, as a new process of preserving the same.

63,301.—IRONING MACHINE.—P. O'Thayne, New York City. First, I claim the construction and arrangement upon the frame, A, of the cylindrical revolving smoothing iron, D, hollow shaft, B, having its bearings in the yielding boxes, a, which are provided with the standards, c, adjustable rest, e, forked lever, E, rod, d, and treadle, F, substantially as herein shown and described

in the years of the segmental platform, G, upon the end of the shaft, H, provided with the claups, g g, flatboard, G', having the toothed rac. 1, pinion, J. mounted upon the shaft, i, when all are constructed and arranged upon the frame, A, as and for the purpose specified.

63,302.—WATER GATE.—Henry Recher, Liberty, Ohio. Iclaim the arrangement and combination of the centrally-kinged gate, F, with the connecting rod, E', lever, C, and float, B, all constructed and oper-sted substantially as described.

63,303.—BREECH-LOADING FIRE-ARM.—Thomas Restell, Lon-

63,305.—SAFE LOCK.—John R. Richards (assi nor to himself

and A. L. Mennez), Mount Joy, Pa. First, I claim the twin sand boxes, A A', or their equivalent gravitating force, and regulating key. H, for thing the period that shall intervene before the boit, D, and boits, W, can be operated so as to unlock the door by with-drawing or unscrewing them by simply turning the knob, F, substantially in the manner and for the purpose specified. Second, The socket, screw holts, W D, operated substantially in the man-ner and for the purpose specified.

63,306.—SASH FASTENER.—Orville M. Ridgway, La Porte,

Ind. I claim the combination of the metallic spring, C, rubber block, D, when constructed and arranged upon each of the sashes, B, as herein set forth, for the purpose specified.

63,307.—LEATHER SCOURING MACHINE.—A. W. Roberts (as-

-Tool HANDLE.-Wm. Runte, New York City.

or tube.

I claim the combination of the plug, D, and the adjustable forrule or tube, E, with the tool handle, substantially as and for the purpose herein shown and described.

63,309.— WAGON.—Benj. Ryder, Jr., South Covington, Me. I claim the frame, G, which supports the reach and allows the wheels to be extended forward, substantially as described. I claim the rollers, C **B**, and the chain, h, arranged and operating substan-tially as shown and described, for the purposes specified, 1. combination with the wagon body.

63,310.-TOBACCO PIPE.-Louis Saarbach, Philadelphia, Pa.

First, I claim introducing water ressels provided with steam valves into a fire-proof safe of any ordinary construction, said vessels being of such size and conformation as to adopt them to the form and dimensions of the safe in which they are placed. Second, Providing each of such water vessels with a tube, t, reaching from any postion of the edge or perimeter to or toward the mathematical center of the vessel, as and for the purpose specified.

63,312.—WAGON BRAKE.—B. B. Scofield, Woodhull, Ill. Iclaim an improved brake formed by the combination of the revolving cylinder, A. curved shoes, C, and lever, D, with each other, substantially as herein shown and described and for the purpose set forth.

63,313.-BED BOTTOM SPRING.-H. G. Seekins (assignor to

claim the tube, c, in combination with the cup, D, for the purpose described. 63,311.—Fire-Proof Safe.—Rufus S. Sanborn, Ripon, Wis.

63.308.-

don, England, assignor to Charles Pomeroy Button, New York City, Antedated March 13, 1867. I claim the reciprocating hammer, H, with its curved inclined plane, S, and spring lever, G, in combination with the slever, ω , and tube, E, for operating the needle, d, substantially as described for the purpose specified. 63,304.—LEMON SQUEEZER.—August J. T. Reuter, Boston, Mass. Antedated March 18, 1867. I claim a grooved bulb or knob constructed substantially as above set forth or the purposes herein specified.

We claim as a new article of manufacture a cheese box constructed of pa- per provided with a removable head, B', and a head, B, permanently secured	Third, The fine from the fire chamber through the front npper chamber to	himself Leonard B. Griffing, and Orange S. Frary),		
to the laps, C, which are made in one piece with the side of the box, and se- cured between disks, D, substantially as described.	chamber in top of the stove, with the controlling dam pers, arranged substan- tially as and for the purpose set forth.	Elyria, Ohio.		
63,268.—BOAT-DETACHING TACKLE.—Johann A. Libbertz,	63,288.—FARM GATE.—D. S. Neal (assignor to himself and	I claim a compound bed spring consisting of the middle leaves, A H' the upper leaves, B B', and lower leaves, C C', the several springs being support-		
Hamburg, Germany.	J. B. Blood), Lynn, Mass.	ea by the fulcrum blocks, d d', constructed and arranged as and for the pur- pose specified.		
I claim the vertical shaft, H, provided with the nut, J, lever, I, and the	I claim a rectangular gate the bars of which are relatively fixed, hung, and operated as described, by supporting it upon a pin, c, and guiding, A, in its	63,314.—SOAP COMPOUND FOR CLEANING AND SCOURING		
slide, K, having lateral arms, d d, in combination with the arms, G G, pivoted in the ears or lugs, F F, on the plate, E, all arranged to operate in the man-	vertical swinging movements by means of the vertical slot in the upright, i substantially as set forth.	WOOL, SILK, ETC.—Daniel Shattuck, Buffalo, N. Y.		
ner substantially as and for the purposes set forth.	63,289.—Ship's Davit and Winch.—D. P. Nickerson, Cleve-	I claim a soap formed by the combination of the ingredients above de- scribed, substantially in the manner and proportions specified.		
63,269.—LINIMENT.—John S. Lightner, Westford, Wis. I claim the liniment compounded as a boy c set forth and described.	land. Ohio.	63,315.—Folding Seat.—C. W. Sherwood, Chicago, Ill.		
63,270.—WIRE-POINTING MACHINE.—John Lockwood, Wil-	I claim the adjustable sliding davit, A, pinions, C, as arranged in combina-	I claim the rubber spring, e, or its equivalent, and the lug, d, in combina-		
ton, Conn., assignor to himselt and Edwin Gilbert, Red-	tion with the adjustable shaft, D, clutch, E, and winch, H, for the purpose and in the manner substantially as set forth.	tion with the axie, C,'and nave, B', all constructed substantially as and for the purposes specified.		
ding, Conn.	63,290.—FIELD FENCE.—A. W. Olds, Green Oak, Mich.	63,316.—FLOUR SIFTER.—J. A. Sinclair (assi nor to himself		
I claim the improved wire-pointing machine herein described, consisting of the frame shaft pulley, cutter head, and cutter, all constructed, arranged,	I claim the posts or stakes, A. A. base, B. in combination with the braces, C. C. and tie, E. when arranged in relation to each other and the rails, D. as and	and J. T. Judkins and W. Hollister, Woodsfield Obio.		
and operating substantially as described.	for the purpose set forth.	First, I claim the combination of the two cylinders, H and I, having lines of brushes, M, winding spirally around them in opposite directions with		
63,271.—KEY.—C. E. Lombard (assignor to himself, A. O. Sinclair, and C. C. Merritt), Springfield, Mass.	63,291.—SAFETY ATTACHMENT FOR POCKET BOOKS.—Simon	pose set forth.		
I claim as a new article of manufacture a key formed of two parts, A and	B. Parker, New York City. I claim a safety attachment for pocket books, composed of a sliding needle,	Second, The drawer, E. consisting of two hinged parts, ei and e2, with opening on its upper side, registering with the discharge or be hopper		
B, constructed and arranged so that the handle, B, shall close over the open- ing in the shaft, A, substantially as set forth.	C, arranged and applied substantially in the manner as herein shown and described.	opening on its upper side, registering with the discharge or like of the hopper having at its bottom the semi-cylindrical sleve, G. swept by the spiral brushes, M, and a passage at its rear opening into spout, N, and constructed		
63,272.—CLOTHES WRINGER.—David Lyman, Middlefield,	63,292.—BOOTJACK.—Walter S. Piffer, Carlisle, Pa.	and operating substantially as described for the purpose specified.		
Conn.	I claim a bootjack with the two parts hinged together at F, and the part, B B, provided with amovable toe piece, D, acted on by any suitable spring,	Third, The combination of the sliding drawer, E, with the box, A, hopper, B, and spoat. N, substantially as herein shown and described.		
First, 1 claim in clothes wringers the within-described construction and ar- rangement of the grooves, M N and intermediate piece, E X Y, combined	substantially as specified within.	63,317.—WINDOW BLIND FASTENING.—Thomas J. Sloan		
and arranged relatively to the shafts, B A and D. so as to communicate the motion and withstand the wear, substantially in the manner and for the pur-		assignor to Ezra Gildersleeve, New York City.		
pose herein set forth.	THE TIMBERS OF STEAM BOATSAbraham G. Polha-	First, I claim the hinge having bevel cogs in combination with the shaft extending to the inside of the window provided with a bevel cog wheel, and		
Second, I claim the piece. C C', construced and arranged as represented, to hold both the shafts, A and B, so as to transmit the motion as represented	1 claim the construction of the water-tight iron tanks in which are main-	the hinge shank constituting the hinge journal on which the blind turns, and the box in which the shaft turns, substantially as and for the purpose de-		
and to maintain the shafts at a uniform distance apart however much the tained a constant change and eleculation of water as the foundation of boilers scribed.				

April 13, 1867.]

63,318.—SELF-ACTING GATE.—Albert C. Smith, Fort Madi

son, Iowa. I claim the combination and arrangement of the sate, A, lever, E, and rods, b d, and operated by the levers, H H, with their cords, r s, rod, g, and pul-leys, in the manner substantially as described and for the purposes set forth. 63,319.—DRILLING APPARATUS.—J. T. Smith, Pittsburg, Pa.

00,013.—DRILLING APPARATUS.—J. T. Smith, PittsOurg, Pa. First, I claim automatically teeding a drill by means of the sheaves, a and b, having motion imparted to theu, substantially as described. Second, I claim the adjustable sheaves, s, he combination with the non-adjustable scheaves, b, when arranged to operate as set forth, for the purpose of holding the rope, R, and feeding it out as described. T rd, I claim the combination of the shaft, E, provided with the wheel, m, and worm wheels, H, with wheels, D, attached to the journals of sheaves, a, all mounted in the rotating frame, A, and arranged to be operated as set forth.

forth. Fourth, I claim the use of the within described apparatus for feeding drills whether the same be rotated by the twist imparted to the rope, or by means of the ratchet, I, substantial y as described.

63,320.-RICE HULLING MACHINE.-D. H. Southworth, New

York City. I claim the conleal drum, D, provided with a series ofteeth or pins, g, and lastic plates and rubbers, F F, on its periphery, arranged and operating eselastic plates and rub sentially as specified.

sentially as specified. 63,321.—LANTERN.—Charles F. Spencer, Rochester, N. Y., assignor to himself and Charles W. Barker. First, I claim resting the globe, C, with the top, E, attached thereto, loosely in the open-topped guards, B, so as to be raised and dropped at pleasure, as herein set forth. Second, Constructing the lantern with closed base and open-topped gnards, for the insertion of both the lamps and globe through the top, as herein specified.

specified. Third, The snlarged wheel, c, so situated and arranged as to reach above the top of the base to be easily operated by the finger, as herein setforth.

63,322.—RIDING SADDLE.—Samuel S. Spurgin, Jacksonville, Ill.

I claim the arrangement in the saddle of the springs, G G, supported on the side plates, and the elastic straining piece, H, fastened to the springs and to the pommel and c multi respectively, substantially as described.

63,323.—BREAST PROTECTOR.—John Stadermann and Henry

Sauerbier, New York City. Sauerbier, New York City. We claimthe two wire gauze or wire cloth parts. A A, swaged each with a protuberance, a, and in such a form as to admit of being inserted in or at-tached to the garment, substantially as and for the purpose setforth. We also claim the connecting of said parts together by hooks and eyes, slides elastic or other insecting, which will admit of said parts, being con-nected and disconnected with facility, and still keep the parts in proper position, substantially as described.

63,324.-PAVEMENT.-C. W. Stafford, Saybrook, Conn.

Iclaim connecting and securing the sections of the pavement together by means of the staples or clamps, a, over pins or keys, b, passing through hori-zontal slots in the vertical flanges, substantially as herein shown and ae-scribed.

63,325.—RESERVOIR FOR COOLING GRAIN AND FLOUR.

Henry Stanley, St. Johnsbury, Vt. I claim a reservoir for cooling grain or hour when constructed by placing the posts there of a tick sag postion, and surrounding them with wire gauge or other porous material, hus forming air recesses, a s, up on the outside of the body of the grain or flour, inceasing the surface of the train exposed to the air, substantially as described and for the purpose specified.

63.326.—Apparatus for Carburetting Gas and Air.-

John S. Stephenson, Cleveland, Ohio. 1 claim the combination of the tubes, H and T, with the agitating wheel, A, and fan wheel N, and funnel pipe, F, constructed as described, and arranged to operate in the manner set forth.

63,327.-DRYING HOUSE AND OVEN.-David Stouter, Dayton, Ohio.

Onio. First, I claim the metallic oven, A, when the lower part is constructed with double walls, and the upper part is lined with wood in the manner substanti-ally as described, and for the purpose specified. Second, The air chamber, O, when arranged with reference to the furnace, F, and oven, A, in the manner substantially as described, and for the purpose provided.

F, and ov 63,328.-VITREOGRAPHY.-C. C. Stremme, Austin, Texas.

I claim the mode of ornamenting glass as herein described, by the applica-tion of glue or similar adhesive and contracting matter, and in this mianner produce models tor casting all and every kind of ornamental glass and glass ware, and for all of which I pray that ietters patent may be granted me. 63,329.-RUNNER FOR CHAINS.-W. H. Stroup, Pittsburgh

Pa.

First, i claim an improved runner, having adjustable fastenings attached to its upper cdgc, substantially as herein shown and described, and for the pur-pose set forth. Second, Making one of the fastenings adjustable longitudinally, substan-tially as herein shown and described, and for the purpose set forth.

63,330.-Spring for VEHICLE.-James B. Stuart, Bunker

Hill, III. I claim the constructing of a side spring for wheel vehicles of three parts, D D C, connected together and applied to a spring bar, A, sn bstantially in the manner as shown and described. I further claim the securing or holding of the leaves of the parts, D D C, in contact, by means of clips or collars, c c', substantially as set forth.

63,331.—Apparatus for Preparing Mash for Brewers

63,331.—APPARATUS FOR PREPARING MIASH FOR BREWERS AND DISTILLERS.—Abram S. Swartz (assignor to him-self and W. A. Case), Buffalo, N. Y. First, I claim the combination of the air pump, H, and conducting pipe, F, with the hollow shaft, C, and perforated rake head, E, for the purposes and substantially as described Second, The combination of the receiver, G, and cooler, M, with the con-ducting pipe, F, hollow shaft, C, perforated rake head, E, and air pump, H, for the purposes, and substantially as set forth. Third, In an apparatus for preparing mash for brewing, I claim the combi-nation and a rangement of the receiver, G, steampipe, O, and steam and air pipe, N, for the purposes, and substantially as described. Fourth, The shifting frame, V, in combination with the clutches, T and U, and bevel wheels, R and S, for the purpose and substantially as described. 63.332.—HAY LOADER.—Eli Sweet. Whitney's Point, N. Y.

63.332.—HAY LOADER.—Ell Sweet, Whitney's Point, N. Y. I claim the arrangement of the sheave in the sliding tongae, and moving therewith, the rope passing over said sheave, and connected at its respective ends to the fork and to the brake bar on the tongue hounds.

63,333.-BRICK MACHINE.-Porter L. Sword, Adrian, Mich. 05,555.—DRICK MACHINE.—FORCET L. SWORD, AUTIAL, MICL. First, I claim the adjustable knife when constructed with a cutting edge set opposite to and so near the press plate, H, that there is merely room for the shaving of clay to rise between them, and having a cutting edge and elon-gated horizontal blade adjustably attached to both ends to and below the bed plate. H, and resting upon the revolving mold wheel, S, so as to perform the duble function of cutting off the superfluous clay, and smoothing the upper surface of the brick, substantially as described. Second, So suspending the root, O, substantialing the wheel, N and L, that they may be independently adjusted at both ends, substantially as and for the pur-pose set forta.

63,335.—Spirit Meter or Separator.—Isaac P. Tice, New York City.

Y OFK Chty. First, I claim a revolving or tilting meter, hung or suspended on journals Fortots, i, and divided into two compar ments, m m', by a diagonal partition r allaphragm, n, with discharge openings, o, all arranzed substantially as rein shown and described. Second, The foats, N, placed within the compartments, m m', ofthe meter, d arranged to operate a valve, 0, to regulate the supply or flow of whisky of the meter, substantially as set forth. Third, The placing of the journals or pivots, i, of the meter, within oblong xres, k, having springs, 1, at their ends, substantially as and for the purpose peublod.

spectified. Fourth. Separating the high from the low grade whisky or spirits, by means of a hydrometer arranged with suitable mechanism in such a manner that the turning or tilting of the meter or other motor will transmit power through the intervention of a wheel stud or other device carried by the hy-drometer to suitable mechanism, which will effect a diversion of the flow or discharge of the whisky or spirits into different receivers, according to its prade or strength. rade or strength. Fifth, The employment or use of indicators or clock movements, in con-tection with the separating mechanism, substantially as and for the purpose

specified. Sixth, The hand, G, of paper or other material, in connection with a meter, and separating mechanism, substantially as and for the pur

n. syenth, In spirit meters charging the paperwhich receives the record h preservative composition, substantially as described.

62,336.-METER ATTACHMENT FOR STILLS.-Isaac P. Tice,

New York City. Icaim the combination of a plurality of meters, with still to operate in the manner substantially as and for the purpose herein set forth. 63,337. — RAILWAY SWITCH. — James Tillinghast, Buffalo,

N. Y. I claim a trible switch for railroads, composed of the rails, D D'E E', con nected respectively by the cross bars, a b, with the cross bar, G, applied to the rails. D D', through the medium of the oblong slots, d d, and pivots, a*, and connected to the lower bar, H, by the spring, J, and the bars, c*, con-nected by the spring, F, and attached to the switch rails, D D', all arranged to operate substantially in the manner as set forth.

63,338.—DRILL FOR WELL.—Washington Tingley, New York

(Lity. I claim in combination, the z-shaped cutting surface, composed of the parts. I claim in combination, the z-shaped cutting surface, composed of the parts. I hand the cut red reaming cutters, m, whose edges on albernate sides are made obligned, so as to effect a drawing cut on the sides of the box, substan-tially as shown.

63,339.—MANUFACTURE OF RAILROAD TIES, BRIDGES, BUILD-INGS, WHARVES, FENCES, AND OTHER ÁRTICLES OF GAL-VANIZED IRON.—Samuel P. Townsend, New Providence,

N

N. J. First, I claim a new article of manufacture for railroad ties, sills, founda-tions, structures in water, fences and buildings, fortifications, steps for stoops, plazase, grivenizing sheathing for bottome of vessels, ships, steamers, boats, etc., and the like, made of the materials and in the manner herein described, or any other substantially the same, and also for the galvanizing and pre-servation of railroad car wheels, axies, and machinery. Second, The preservation of iron from oxydation or corrosion, by galvan-izing it as above described, when used for the purposes herein mentioned.

63,340.—SAW MILL.—James Tracy, Brewer's Village, Maine. I claim applying the spring, k, to bent lever, K, for the purpose of throw-ing the friction pulleys out of contact, substantially as described.

63,341.-ENDLESS BELT FOR POLISHING.-Justus A. Trant New Britain, Conn., assignor to himself and Jeremy W

Bliss, Hartford, Conn. I claim, as a new improved article of manufacture, an endless fabric rubber olishing belt, substantially as described.

-PEAT MACHINE.-Thomas J. Wells, St. Anthony, 63.342.

Min. I claim the conical grinding plates, F F, rotating at different speeds, and inclosed within a case, G, provided with a discharge espout, H, substantially as and for the purpose set forth. I further claim thereclaprocating mold box, I, provided with the molds, b b, and the pluagers, J J, operated substantially as abown in combination with the rotating conical grinding plates, F F, inclosed within the case, G, pro-vided with the spout, H, all arranged substantially as and for the purpose set forth.

63,343.—FAN WHEEL BLOWER.—Amos Westcott, Syracuse,

N. Y. Antedated March 15, 1867. Iclaim a fan wheel blower, propelled by friction wheels, as shown and in-closed within the parts, A JB, constructed and made adjustable, substantially in the manner described.

63,344.—DEVICE FOR HOLDING HORSES.—James M. Whiting, Providence, R. I.

FTOVIDENCE, If. I. First, I claim combining with the wheel of a carriage a hitching apparatus arranged in such manner that the winding up or shortening of the reins or other checking device shall take place only during the forward movement of the wheel, the said apparatus being disconnected from the driving gear dur-ing the backward movement of the carriage, substantially as shown and set forth.

forth. Second, The combination with the windlass provided with a ratchet wheel as described, of a driving pinion loosely mounted upon said shatt, and carry-ing a pawl engaging with the said ratchet wheel, under such an arrangement that the said shart shall be disconnected from the driving gear during the backward movement of the carriage, as set forth.

63,345.—Horse HAY Fork.—A. F. Wicke and O. Evans,

Alliance, Ohio. We claim the rod, A, foot, B, connecting rod, C, and lever, D, provided with the shoulder, C', when these several parts are constructed and operated as and for the purpose set forth.

63,346.-HEEL SHAVING GUARD.-J. E. Wiggin, and Daniel

E. Crosby, Stoneham, Mass. First, We claim the combination and arrangement of the guard, A, and pin, B, when the two are constructed substantially in the manner described. Second, We claim the device of the ball and the socket joint when com-bined with the guard and center of a heel trimming machine.

63,347.—AXLE TREE.—James W. Wilkie, Auburn, N. Y. First I claim constructing the axie without a collar, and providing i the underside of the arm, with an oil chamber, as and for the purpose viding it on nurnose set

Second, The combination of the axle and box, when both are constructed as and for the purpose described,

63,348.—AxLE TREE.—James W. Wilkie, Auburn, N. Y. First, I claim the employment of a divided nut as andfor the purpo

forth. Second, The employment of a divided nut in combination with the arm of the axie as constructed, as and for the purpose described. Third, The box as constructed in combination with a divided nut, substan-tially as set forth.

Fifteenth, A meter in combination with a scaled transparent receiver, sub-tantially as and for the purpose specified. Stxteenth, The combination of a meter transparent receiver and a locked or scaled cock, for the purpose apecified. Beventeenth, The admissible spont, U, in combination with the cock, W, sub-tantially as and for the purpose set forth. 63,335.—SPIRIT METER OR SEPARATOR.—Isaac P. Tice, New

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RE-ISSUES.

2,524.—Composition for Roofing.—John P. Cowing, Sene-ca Falls, N. Y. Patented Feb. 19, 1867. I claim the simple compound of ground fire clay rock, or slaty clay and coal tar. as specified. 2,525.—PEN AND PENCIL CASE.—Lawrence A. Heely, New

York City, by mesne assignments of Frederick W. Cox. Patented June 27, 1865.

Patented June 27, 1865. I claim, First, extending the longitudinally moving tube, e, with the revolv-er, b, to such a longith into the case, A, that the traveler can be made to move back, below or within the outer end of the tube, e, as set forth, whereby a pencil case is obtained, the tip of which can be moved in and out, and which is capable of carrying long leads. Second, The circular groove, s, in the revolver, b, in combination with the pin, i, substantially as herein set forth, so that sufficient hold for the said pin is obtained without the necessity of a cap over the tube, e, and at the same time the revolver is prevented from moving in a longitudinal direction. Third, The collar, o, in combination with the tube, f, and shell h, substan-tially as and for the purpose specified. Fourth. The rese we lead clamber, p, extending partially or wholly round therevolver, b, when the same is made withor without a hongitudinal mo-tion, when said chamber is situated within the shell, A, substantially is and for the purpose shown and described.

for the purpose shown and described.

2,526. - WARP-DRESSING FRAME. - Alexander M. Damon,

Lowell, Mass. Patented October 9, 1866. I claim the combination or mechanism for operating one or more raddles in manner as set forth, such consisting of the slotted bar, P, the gear, G, the pine, g p, and mechanism for revolving the s and gear, the said bar, P, the gear, G, the pine, g b, and mechanism for revolving the s and gear, the said bar, P, the gear, G, the pine, g b, and mechanism for revolving the s and gear, the said bar, P, the g constructed and the whole being arranged together, and with the raddle or raddles, substantially as and so as to operate as hereinbefore explained.

2,527.—MACHINE FOR CUTTING AND FINISHING SHOE HEELS. —The McKay Heeling Machine Company, Boston, Mass., assignees by mesne assignments of William F. Edson.

Patented Sept. 6, 1859.

Fatented Sept. 6, 1839. I claim, in combination with a cutting, grinding, or polishing device for operating to sha e or finish a boot or shue heel, and where a movement is given to such device or to the heel, relative one to the other, aformer or pattern located on the tread of the heel, and operating in connection with a shield against which it abuts, to govern in whole or in part the form of the heel

heel. Also, in a heel shaping or finishing mechauism, such an arrangement of a shield with reference to the cutting abraiding or polishing device, and to the counter of a boot or shoe having a neel to be cut, ground or polished, as will, by the abuttal of the said counter against said shield, govern in whole of in part the form of the heel. Also, the combination with a heel shaping or with a heel finishing mechan-ism of a flexible counter protecting band arranged to operate substantially as described.

2,528.-Spelling Block.-Samuel L. Hill, Williamsburg,

N. Y., assignor to himself, Albert Palmer and A. Sidney Doane. Patented Oct. 12, 1858.

First, I claim Placing different letters of the alphabet upon two or more discort cubical or six-sided blocks, so that by combining the same, words in which the same letters occur more than once may be readily spelled. Second, I claimplacing upon each block its proper numeral for the purpose pecified. apecified.
2,529.—ENVELOPE MACHINE.—George H. Reay, and Lewis Negbaur, New York City, assignees by mesne assign-ments of George H. Reay. Patented Aug. 25, 1863.
First, We claim the employment of a movable carrier. E, in combination with the rising and failing lifters, F, constructed and operating in the manner and for the purpose substantially as herein specified.
Second, The arrangement of the table, C, over the conveyer. H, substanti-ally in the manner herein described, so that the blanks are held even and in place by the table, while being carried by the conveyer to the creasing box. Third, The alotted lifters, F, in combination with the bar, c', in the table, C, as and for the purpose herein specified.
Fourth, The arms, e'', attached io the table, C, or to any other ridefined of the machine, and operating in combination with the conveyor, H, sub-stants lly as and for the purpose et forth.
Fith, Feeding the blanks under the table or platform, which supports the gum box, instead of over it.
Strenth, The weight, c2, in the front edge of the table. in combination with the conveyor, H, applied and operating substantially as and for the purpose set forth.
Seventh, The balance weight, h3*, in combination with the conveyor, H, applied and operating in the manner and for the purpose herein specified.
Eighth, Arranging the finders, K, in such relation to the plunger, J, that they hold the flaps of the cavelope, which have been creased by being passed through the box, I, until the plunger descends again and completes the en-velope, by pressing it as set forth.
Mintt, The arrangement of hings joints, k3, in the shanks of the folding fingers, K, in the manner and for the purpose substantially as described.
Teoth, The sam, m, and roller, m*, or its equivalent, in combination with the plunger, J, constructed and operating substantially as described.
Teoth, The sam, m, and roller, m*, or its equivalent, in combin 2,529.—ENVELOPE MACHINE.—George H. Reay, and Lewis

The plunger, J, constructed and operating substanting as and for the pur-pose specified. Eleventh, Passing the plunger, J, below the lower creasing edge, i*, of the box, and leaving the creased envelope below the lower edge of the box, to prevent the same from going back with the plunger. Tweifth, The ribs or ledges, j4, on the face of the plunger, as and for the purpose described.

2,530.—STEAM PUMP.—Louis C. Rodier and J. R. Gardiner, Springfield, Mass, assignees of Louis C. Rodier. Patented Aug. 14, 1866. eclaim, First, The arrangement of accordary valves, d', ports, f, and rvoirs, L, L, st or near each and of the crinder, operating with the pis-B, and valve, D, to reverse the motion of the piston, in the manner set

reservoirs, if is not a transmission of the parton, in successful to a grant valves, by to reverse the motion of the parton, in successful to a grant valves of the parts is a successful to the parts upon plugs constructed as described. Third, Constructing the plug through which the wat ris forced when both valves are attached to it is the manner shown, having a longitudinal and a lateral partition, arranged substantially as set forth.

Saloshinsky. Dated Jan. 31, 1860. I claim a machine organized so as to operate to drive or force several nails or pegs simultangunaly from the inside of a boot or shoe through its sole into the heel thereof, substantially as described. Also the combination in one machine of means for nailing or pegging the heel of a boot or a shoe to the sole thereof, and means for forming the curvi-line or outline of the heel by cusing a relative turning movement between the heel and a cutting edge, substantially as described.

2,532.-BRICK MACHINE.-Porter L. Sword, Adrian, Mich., assignee by mesne assignments of himself and George S.

1.—MACHINE FOR ATTACHING AND FINISHING BOOT HEELS.—The McKay Heeling Machine Company, Bos-ton, Mass, assignees by mesne assignments of Herman Palachingtry, Dated Ion 21, 1980

W

shaving of clay to rise between them, and having a cutting edge and elon-	the axle as constructed, as and for the purpose described.	assignee by mesne assignments of himself and George S.
gated horizontal blade adjustably attached to both ends to and below the	Third, The box as constructed in combination with a divided nut, substan-	Tiffany. Patented June 14, 1864.
bed plate, H, and resting upon the revolving mold wheel, S, so as to perform	tially as set forth.	First, I claim adjustably suspending the mold wheel, C, from the bed plate
the double function of cutting off the superfluous clay, and smoothing the	63,349.—STEAM PLOW.—George Willard, New York City.	upou wheels, H, upon which it revolves, substantially as set forth.
upper surface of the brick, substantially is described. Second, So suspending the rod, O, sustaining the wheel, N and L, that they	First. I claim in combination in a steam or other plow, as described, of the	Second, The combination of the mold wheel, C, and pug mill, A, with a bed
may be independently adjusted at both ends, substantially as and for the pur-	bars which carry the spades and other mechanism for breaking the ground,	plate. C, having a curved lineal opening under the pug mill and over the
pose set forth.	with the crank shafts for operating the same, under the arrangement herein	molds, substantially as describen. Third, A curved tubular extension, D', leading from the bottom of the pug
Third, The combination of the bed plate, H, and stationary shaft, U, with	specified, so that the said bars, while alternately and successively moved to- wards and away from the earth, sball at all times maintain their arallelism	millover t' erim of the mold wheel through which the clay is fed to the
the rods, M and O, wheels, N and L, collar, Q, bolts, Q, mold wheel, S, sub-	with the surface passed over by the machine.	molds, substantially as set forth.
stantially as and for the purpose set forth. Fourth, The arrangement in a brick machine of a stationary shaft, H, mold	Second, The combination in the movable and adjustable plow frame of the !	Fourth, The inclined adjustable press plate, E, placed in the tubular extension, D' , in combination with the mold wheel, C.
wheel, S, revolving around the same, and having gearing upon its periphery,	coulters, with the vibrating spades and harrow teeth, under the arran ement	tension, D', in combination with the mold wheel, C.
and the driving spur pinion, R, substantially asset forth.	and for operation as set forth, Third The combination with the stationary play frame, of the moreble	Fifth, The combination of the press plate, E, mold wheel, C, followers, F, and wheel, G, substantially as and for the purpose set forth.
	Third, The combination with the stationary plow frame, of the movable frame and the cams, and their operative mechanism for sdjusting the same	Sixth, Adjustably suspending the wheel, G, from the bed plate, D, by rods,
63,334.—Spirit Meter and Separator.—Isaac P. Tice, New	frame to different elevations above the ground, the whole being arranged and	G2, substantially as and for the purpose set forth.
York City.	operating as herein shown and specified.	Seventh, The combination of the mold wheel, C, bed plate, D, and the ad-
First, I claim the receiver, B provided with a locked or sealed transparent	Fourth, The herein described mechanism for adjusting the movable plow	justable packing rings, I and I', attached thereto, substantially as set forth.
cap or cover, C, when used in connection with a branch pipe, H, communi-	frame, the same consisting of a series of cams arranged and connected with the stationary and movable frame, on each side of the plow as desc ibed, and	Eighth, The combination of the a justable press plates and adjustable
cating with the receiver, the worm, A, and air discharge openings, substan-	operated by means of a shaft mounted in the stationary frame and provided	
tially as and for the purpose set forth. Second, A tilting or partially rotating meter, R. arranged with or applied	with a ratchet and pawl so that the movable frame may be elevated and low-	2,533.—BRICK MACHINE.—John Watson, Buffalo, N. Y., as-
to a scale frame, Q, to operate substantially in the manner as and for the pur-	ered, or held at any desired distance from the ground, substantially as shown	signee by mesne assignments of himself. Patented June
pose specified.	and set forth.	5, 1866.
Third, A valve, M, connected with and operated by the scale frame, Q,	Fittb, The method of and means herein described for directing the move- ment of a steam plow or other like machine, that is to say, mounting the	I claim the combination of an internal or grooved cam, as described, with a
when used in connection with the meter, R, and arranged to work, conjoint-	wheels of said machine upon their axles or shafts in such manner that each	connecting rod or the equivalent thereof, operating the sliding mold of a
ly there with, substantially as shown and described. Fourth, The pin, n, on upright, a, in combination with the notches, m m', in	wheel and its respective axle may revolve together or independently of each	brick machine, for the purpose of giving to the said mold the necessary re-
the circular end of the meter, R, for the purpose of holding the meter in po-	other, substantially as and for the purposes set forth.	ciprocating motions. I also claim the combination of the pin, G, with the cam, E, to operate the
sition while being filled, as set forth.	63,350.—Method of Securing Cutter to Sickle Bar.—	above-mentioned reciprocating motion of mold, B, as and for the purposes
Fifth, The pin, k, on upright, a*, in combination with the pins, 11', on the end of the meter, to serve as steps to determine the quarter revolution of the	C. S. Williamson, Covert, N. Y.	described.
meter as set forth.	I claim the cutter bar, having shoulders, resting against the sickle bar, A,	2,534.—Roller TEMPLE FOR LOOMS.—Henry Kayser, New
Sixth, The many cham ered or four way cock, W, arranged in connection	with tapering shank, c. fitting in groove, a, of the sickle bar forming a dove-	York City, assignee of J. Mathis. Patented April 24,
with sample chambers, q q, q' q', and operated from the meter, or other mov-	tail joint, in the manner described, and for the purpose specified.	1866. Antedated March 14, 1861.
able part of the device. for the parpose specified. Seventh, The weight or counterpoise, j, applied to themeter, R, in combina-	69.051 Winner and Granner Terror A. Weathurst	
tion with the scale frame, Q, as shown and described.	63,351.—VALVE FOR STEAM ENGINE.—James A. Woodbury,	I claim, First, A temple provided with a series of wheels set in an oblique direction, substantially as and for the purpose described.
Eighth. The adjustable grouts, U B [*] , connected by a har, E', or its equiva-	Boston, Mass.	Second, Giving to each of the oblique wheels an independent revolving
lant, so as to be operated simultaneously as shown and described. Ninth, I claim discharging the air from a still into a receiver, having a sinu-	I claim the v lve constructed as desribed, and arranged with reference to	motion, substantially as and for the purpose set forth.
Ninth, I claim discharging the air from a still into a receiver, having a sinu- one passage, substantially as shown in cover, K, for the egress and ingress of	the openings in the walled ports upon which it works, substant ally as de- scribed, which arrangement enables me to regulate the movement of the in-	Third, The accentric shoulders, e, on the disk, d, which separate the oblique
Bir as set forth,	ductive valves, so as to cut off the steam at any desired part of the str ke of	wheels, a, substantially as and for the purpose described.
Tenth, A locked or sealed cock, D', when used in combination with a meter,	the piston, without reference to exhaust valves,	
B, for the purpose specified.	63,352VALVE FOR STEAM ENGINE,-James A. Woodbury,	DESIGNS.
Eleventh, The combination of the pipe or end, A, of the worm, with the re- ceiver, B, and pipe, H, substantially as described.		2,606.—PARLOR STOVE.—C. Harris and P. W. Zoiner, Cin-
Tweifth, The wiper or plugger, E, within the transparent cap cover of cyl-	Boston, Mass,	nati. Ohio.
inder, C. arranged substantially as and for the putpose specified.	I claim the combination of two or more valves, with intermediate walls, when constructed and operating substantially as and for the purpose set	2,607.—PRINTERS' TYPE.—Andrew Little, New York City.
Thirteenth, The alarm composed of the wheel, 1, and the spring or click, J,	forth.	ACCOUNTING THE CONTINUE TO THE CASE OF THE CASE OF THE
or their equivalents, when arranged so as to be operated by the sir or gaseous vapor or contents of the still, substantially as shown and described.		None In the shows lift of natanta we accord as the names of Frank ash
Fourteenth, A case, C*, const noted with double walls, or in any other	63,353.—Loom.—Caspar Zwicki, Chicago, Ill., assignor to	Norn In the above list of patents we recogn ze the names of FIFTT per-
ma ner, when said case is used with or incloses a meter, for the purpose of	James J. Walworth, and Gustavus E. Baschick.	sons whose applications were solicited through the Scientific American
preventing the freezing of the contents of the same, as set forth.	I claim combining with the shuttle race, and with the oranks and connect-	Patent Agoney